

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 18, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Gollner (BKG)
Work Order #2407144

Enclosed are the results of analyses for samples received by Summit Scientific on 07/11/24 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Natalie Tessier For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01-0.5FT	2407144-01	Soil	07/10/24 12:55	07/11/24 16:30
BKG01-3FT	2407144-02	Soil	07/10/24 13:00	07/11/24 16:30
BKG01-4FT	2407144-03	Soil	07/10/24 13:05	07/11/24 16:30
BKG01-5FT	2407144-04	Soil	07/10/24 13:10	07/11/24 16:30
BKG02-0.5FT	2407144-05	Soil	07/10/24 13:15	07/11/24 16:30
BKG02-3FT	2407144-06	Soil	07/10/24 13:20	07/11/24 16:30
BKG02-4FT	2407144-07	Soil	07/10/24 13:25	07/11/24 16:30
BKG02-5FT	2407144-08	Soil	07/10/24 13:30	07/11/24 16:30
BKG03-0.5FT	2407144-09	Soil	07/10/24 13:35	07/11/24 16:30
BKG03-3FT	2407144-10	Soil	07/10/24 13:40	07/11/24 16:30
BKG03-4FT	2407144-11	Soil	07/10/24 13:45	07/11/24 16:30
BKG03-5FT	2407144-12	Soil	07/10/24 13:50	07/11/24 16:30
BKG04-0.5FT	2407144-13	Soil	07/10/24 13:55	07/11/24 16:30
BKG04-3FT	2407144-14	Soil	07/10/24 14:00	07/11/24 16:30
BKG04-4FT	2407144-15	Soil	07/10/24 14:05	07/11/24 16:30
BKG04-5FT	2407144-16	Soil	07/10/24 14:10	07/11/24 16:30
BKG05-0.5FT	2407144-17	Soil	07/10/24 14:15	07/11/24 16:30
BKG05-3FT	2407144-18	Soil	07/10/24 14:20	07/11/24 16:30
BKG05-4FT	2407144-19	Soil	07/10/24 14:25	07/11/24 16:30
BKG05-5FT	2407144-20	Soil	07/10/24 14:30	07/11/24 16:30
BKG06-0.5FT	2407144-21	Soil	07/10/24 14:35	07/11/24 16:30
BKG06-3FT	2407144-22	Soil	07/10/24 14:40	07/11/24 16:30
BKG06-4FT	2407144-23	Soil	07/10/24 14:45	07/11/24 16:30
BKG06-5FT	2407144-24	Soil	07/10/24 14:50	07/11/24 16:30

Summit Scientific

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Client: Fremont Environmental		Send Data To:		Send Invoice To:	
Address:		Project Manager: Paul Henehan		Company: Noble	
City/State/Zip:		E-Mail: Fremont Distribution List		Project Name/Location:	
Phone: 303-261-6246		Project Name: Gollner (BKG)		AFE#:	
Sampler Name: Stanley Gilbert		Project Number:		PO/Billing Codes: UWRWE-A3585-ABN	
				Contact: Mike Montoya	

					Preservative				Matrix			Analysis Requested							Special Instructions		
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)	TDS, Chloride, Sulfate		HOLD	
1	BKG01-0.5Ft	7/10/24	12:55	1			X			X						X	X				
2	BKG01-3Ft		13:00																		
3	BKG01-4Ft		13:05																		
4	BKG01-5Ft		13:10																		
5	BKG02-0.5Ft		13:15																		
6	BKG02-3Ft		13:20																		
7	BKG02-4Ft		13:25																		
8	BKG02-5Ft		13:30																		
9	BKG03-0.5Ft		13:35																		
10	BKG03-3Ft		13:40																		
11	BKG03-4Ft		13:45																		
12	BKG03-5Ft		13:50																		
13	BKG04-0.5Ft		13:55																		
14	BKG04-3Ft		14:00																		
15	BKG04-4Ft		14:05																		

Relinquished by:	Date/Time:	Received by:	Date/Time:	TAT Business Days	Field DO	Notes:
<i>[Signature]</i>	7/10/24 17:20	Summit North	7/10/24 17:20	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
52	7/11/24 1030	<i>[Signature]</i>	7/11/24 1030	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 7.9	Corrected Temperature: 8	IR gun #: 1	HNO3 lot #:			

Client: Fremont Environmental		Send Data To:		Send Invoice To:	
Address:		Project Manager: Paul Henehan		Company: <u>Noble</u>	
City/State/Zip:		E-Mail: Fremont Distribution List		Project Name/Location:	
Phone: 303-261-6246		Project Name: <u>Gollner (BKG)</u>		AFE#:	
Sampler Name: Stanley Gilbert		Project Number:		PO/Billing Codes: <u>UW BWE-A3585-ABN</u>	
				Contact: <u>Mike Montoya</u>	

					Preservative				Matrix		Analysis Requested							Special Instructions			
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)	TDS, Chloride, Sulfate		HOLD	
1	BKG04-5Ft	7/10/24	14:10	1			X			X						X	X				
2	BKG05-0.5Ft		14:15																		
3	BKG05-3Ft		14:20																		
4	BKG05-4Ft		14:25																		
5	BKG05-5Ft		14:30																		
6	BKG06-0.5'		14:35																		
7	BKG06-3Ft		14:40																		
8	BKG06-4Ft		14:45																		
9	BKG06-5Ft		14:50																		
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>7/10/24 17:20</u>	Received by: <u>Summit North</u>	Date/Time: <u>7/10/24 17:20</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <u>[Signature]</u>	Date/Time: <u>7/11/24 1030</u>	Received by: <u>[Signature]</u>	Date/Time: <u>7/11/24 1430</u>	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	Field Turb.	
Temperature Upon Receipt: <u>7.9</u>	Corrected Temperature: <u>6</u>	IR gun #:		HNO3 lot #:		

S₂

2/2

Sample Receipt Checklist

S2 Work Order# 2407144

Client: Fremont Client Project ID: Gillner (BKG)Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☐ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 79 Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	none
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no times
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

7/11/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG01-0.5FT
2407144-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/10/24 12:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHG0340	07/12/24	07/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/10/24 12:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	6.68	0.200		mg/kg dry	1	BHG0346	07/12/24	07/16/24	EPA 6020B	
Barium	166	0.400		"	"	"	"	"	"	
Cadmium	0.344	0.200		"	"	"	"	"	"	
Copper	6.72	0.400		"	"	"	"	"	"	
Lead	14.7	0.200		"	"	"	"	"	"	
Nickel	7.63	0.400		"	"	"	"	"	"	
Silver	0.0882	0.0200		"	"	"	"	"	"	
Zinc	25.0	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/10/24 12:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHG0348	07/12/24	07/12/24	EPA 7196A	

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

Date Sampled: **07/10/24 12:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	18.1	0.0500		mg/L dry	1	BHG0338	07/12/24	07/16/24	EPA 6020B	
Magnesium	3.69	0.0500		"	"	"	"	"	"	
Sodium	5.60	0.0500		"	"	"	"	"	"	

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Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG01-0.5FT
2407144-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/10/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.314	0.00100	units	1	BHG0446	07/17/24	07/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/10/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.2		%	1	BHG0343	07/12/24	07/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/10/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0962	0.0100	mmhos/cm	1	BHG0356	07/12/24	07/15/24	EPA 120.1	

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

Date Sampled: **07/10/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.71		pH Units	1	BHG0355	07/12/24	07/15/24	EPA 9045D	

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Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG01-3FT
2407144-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/10/24 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHG0340	07/12/24	07/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/10/24 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	5.16	0.200	mg/kg dry	1	BHG0346	07/12/24	07/16/24	EPA 6020B	
Barium	428	0.400	"	"	"	"	"	"	
Cadmium	0.301	0.200	"	"	"	"	"	"	
Copper	6.19	0.400	"	"	"	"	"	"	
Lead	11.1	0.200	"	"	"	"	"	"	
Nickel	7.31	0.400	"	"	"	"	"	"	
Silver	0.0500	0.0200	"	"	"	"	"	"	
Zinc	25.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/10/24 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0348	07/12/24	07/12/24	EPA 7196A	

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

Date Sampled: **07/10/24 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	27.7	0.0500	mg/L dry	1	BHG0338	07/12/24	07/16/24	EPA 6020B	
Magnesium	14.5	0.0500	"	"	"	"	"	"	
Sodium	3.56	0.0500	"	"	"	"	"	"	

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Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG01-3FT
2407144-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/10/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.136	0.00100	units	1	BHG0446	07/17/24	07/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/10/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.4		%	1	BHG0343	07/12/24	07/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/10/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.134	0.0100	mmhos/cm	1	BHG0356	07/12/24	07/15/24	EPA 120.1	

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

Date Sampled: **07/10/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.90		pH Units	1	BHG0355	07/12/24	07/15/24	EPA 9045D	

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Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG01-4FT
2407144-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/10/24 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHG0340	07/12/24	07/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/10/24 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	5.12	0.200	mg/kg dry	1	BHG0346	07/12/24	07/16/24	EPA 6020B	
Barium	150	0.400	"	"	"	"	"	"	
Cadmium	0.268	0.200	"	"	"	"	"	"	
Copper	6.52	0.400	"	"	"	"	"	"	
Lead	10.7	0.200	"	"	"	"	"	"	
Nickel	7.15	0.400	"	"	"	"	"	"	
Silver	0.0482	0.0200	"	"	"	"	"	"	
Zinc	24.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/10/24 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0348	07/12/24	07/12/24	EPA 7196A	

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

Date Sampled: **07/10/24 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	15.5	0.0500	mg/L dry	1	BHG0338	07/12/24	07/16/24	EPA 6020B	
Magnesium	12.3	0.0500	"	"	"	"	"	"	
Sodium	4.32	0.0500	"	"	"	"	"	"	

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Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG01-4FT
2407144-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/10/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.199	0.00100	units	1	BHG0446	07/17/24	07/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/10/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.2		%	1	BHG0343	07/12/24	07/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/10/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.124	0.0100	mmhos/cm	1	BHG0356	07/12/24	07/15/24	EPA 120.1	

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

Date Sampled: **07/10/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.10		pH Units	1	BHG0355	07/12/24	07/15/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG01-5FT
2407144-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/10/24 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHG0340	07/12/24	07/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/10/24 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	5.57	0.200	mg/kg dry	1	BHG0346	07/12/24	07/16/24	EPA 6020B	
Barium	253	0.400	"	"	"	"	"	"	
Cadmium	0.305	0.200	"	"	"	"	"	"	
Copper	6.35	0.400	"	"	"	"	"	"	
Lead	10.7	0.200	"	"	"	"	"	"	
Nickel	7.48	0.400	"	"	"	"	"	"	
Silver	0.0420	0.0200	"	"	"	"	"	"	
Zinc	24.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/10/24 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0348	07/12/24	07/12/24	EPA 7196A	

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

Date Sampled: **07/10/24 13:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	15.5	0.0500	mg/L dry	1	BHG0338	07/12/24	07/16/24	EPA 6020B	
Magnesium	13.4	0.0500	"	"	"	"	"	"	
Sodium	7.33	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG01-5FT
2407144-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/10/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.329	0.00100	units	1	BHG0446	07/17/24	07/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/10/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.9		%	1	BHG0343	07/12/24	07/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/10/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.179	0.0100	mmhos/cm	1	BHG0356	07/12/24	07/15/24	EPA 120.1	

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

Date Sampled: **07/10/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.87		pH Units	1	BHG0355	07/12/24	07/15/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG02-0.5FT
2407144-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/10/24 13:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHG0342	07/12/24	07/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/10/24 13:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	6.21	0.200	mg/kg dry	1	BHG0346	07/12/24	07/16/24	EPA 6020B	
Barium	172	0.400	"	"	"	"	"	"	
Cadmium	0.321	0.200	"	"	"	"	"	"	
Copper	7.27	0.400	"	"	"	"	"	"	
Lead	13.5	0.200	"	"	"	"	"	"	
Nickel	8.06	0.400	"	"	"	"	"	"	
Silver	0.0956	0.0200	"	"	"	"	"	"	
Zinc	26.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/10/24 13:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0348	07/12/24	07/12/24	EPA 7196A	

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

Date Sampled: **07/10/24 13:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	12.6	0.0500	mg/L dry	1	BHG0338	07/12/24	07/16/24	EPA 6020B	
Magnesium	2.92	0.0500	"	"	"	"	"	"	
Sodium	4.38	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG02-0.5FT
2407144-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/10/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.289	0.00100	units	1	BHG0446	07/17/24	07/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/10/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.2		%	1	BHG0343	07/12/24	07/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/10/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0809	0.0100	mmhos/cm	1	BHG0356	07/12/24	07/15/24	EPA 120.1	

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

Date Sampled: **07/10/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.89		pH Units	1	BHG0355	07/12/24	07/15/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG02-3FT
2407144-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/10/24 13:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHG0342	07/12/24	07/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/10/24 13:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	5.87	0.200	mg/kg dry	1	BHG0346	07/12/24	07/16/24	EPA 6020B	
Barium	164	0.400	"	"	"	"	"	"	
Cadmium	0.299	0.200	"	"	"	"	"	"	
Copper	6.56	0.400	"	"	"	"	"	"	
Lead	10.9	0.200	"	"	"	"	"	"	
Nickel	7.55	0.400	"	"	"	"	"	"	
Silver	0.0757	0.0200	"	"	"	"	"	"	
Zinc	24.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/10/24 13:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0348	07/12/24	07/12/24	EPA 7196A	

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

Date Sampled: **07/10/24 13:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	39.5	0.0500	mg/L dry	1	BHG0338	07/12/24	07/16/24	EPA 6020B	
Magnesium	7.68	0.0500	"	"	"	"	"	"	
Sodium	3.60	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG02-3FT
2407144-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/10/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.137	0.00100	units	1	BHG0446	07/17/24	07/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/10/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.4		%	1	BHG0343	07/12/24	07/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/10/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.112	0.0100	mmhos/cm	1	BHG0356	07/12/24	07/15/24	EPA 120.1	

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

Date Sampled: **07/10/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.05		pH Units	1	BHG0355	07/12/24	07/15/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG02-4FT
2407144-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/10/24 13:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHG0342	07/12/24	07/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/10/24 13:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	6.64	0.200	mg/kg dry	1	BHG0346	07/12/24	07/16/24	EPA 6020B	
Barium	157	0.400	"	"	"	"	"	"	
Cadmium	0.335	0.200	"	"	"	"	"	"	
Copper	6.60	0.400	"	"	"	"	"	"	
Lead	11.3	0.200	"	"	"	"	"	"	
Nickel	7.59	0.400	"	"	"	"	"	"	
Silver	0.0721	0.0200	"	"	"	"	"	"	
Zinc	24.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/10/24 13:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0348	07/12/24	07/12/24	EPA 7196A	

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

Date Sampled: **07/10/24 13:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	40.9	0.0500	mg/L dry	1	BHG0338	07/12/24	07/16/24	EPA 6020B	
Magnesium	7.55	0.0500	"	"	"	"	"	"	
Sodium	3.44	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG02-4FT
2407144-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/10/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.130	0.00100	units	1	BHG0446	07/17/24	07/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/10/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.7		%	1	BHG0343	07/12/24	07/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/10/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.102	0.0100	mmhos/cm	1	BHG0356	07/12/24	07/15/24	EPA 120.1	

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

Date Sampled: **07/10/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.12		pH Units	1	BHG0355	07/12/24	07/15/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG02-5FT
2407144-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/10/24 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHG0342	07/12/24	07/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/10/24 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	5.70	0.200	mg/kg dry	1	BHG0346	07/12/24	07/16/24	EPA 6020B	
Barium	309	0.400	"	"	"	"	"	"	
Cadmium	0.304	0.200	"	"	"	"	"	"	
Copper	6.15	0.400	"	"	"	"	"	"	
Lead	10.8	0.200	"	"	"	"	"	"	
Nickel	7.25	0.400	"	"	"	"	"	"	
Silver	0.0480	0.0200	"	"	"	"	"	"	
Zinc	24.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/10/24 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0348	07/12/24	07/12/24	EPA 7196A	

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

Date Sampled: **07/10/24 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	24.0	0.0500	mg/L dry	1	BHG0338	07/12/24	07/16/24	EPA 6020B	
Magnesium	9.36	0.0500	"	"	"	"	"	"	
Sodium	6.26	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG02-5FT
2407144-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/10/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.275	0.00100	units	1	BHG0446	07/17/24	07/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/10/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.4		%	1	BHG0343	07/12/24	07/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/10/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.167	0.0100	mmhos/cm	1	BHG0356	07/12/24	07/15/24	EPA 120.1	

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

Date Sampled: **07/10/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.85		pH Units	1	BHG0355	07/12/24	07/15/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG03-0.5FT
2407144-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/10/24 13:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHG0342	07/12/24	07/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/10/24 13:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	5.81	0.200	mg/kg dry	1	BHG0346	07/12/24	07/16/24	EPA 6020B	
Barium	134	0.400	"	"	"	"	"	"	
Cadmium	0.261	0.200	"	"	"	"	"	"	
Copper	7.03	0.400	"	"	"	"	"	"	
Lead	11.3	0.200	"	"	"	"	"	"	
Nickel	7.38	0.400	"	"	"	"	"	"	
Silver	0.0674	0.0200	"	"	"	"	"	"	
Zinc	26.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/10/24 13:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0348	07/12/24	07/12/24	EPA 7196A	

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

Date Sampled: **07/10/24 13:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	26.7	0.0500	mg/L dry	1	BHG0338	07/12/24	07/16/24	EPA 6020B	
Magnesium	4.28	0.0500	"	"	"	"	"	"	
Sodium	24.0	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG03-0.5FT
2407144-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/10/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.14	0.00100	units	1	BHG0446	07/17/24	07/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/10/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.1		%	1	BHG0343	07/12/24	07/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/10/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.212	0.0100	mmhos/cm	1	BHG0356	07/12/24	07/15/24	EPA 120.1	

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

Date Sampled: **07/10/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.85		pH Units	1	BHG0355	07/12/24	07/15/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG03-3FT
2407144-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/10/24 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHG0342	07/12/24	07/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/10/24 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	5.73	0.200	mg/kg dry	1	BHG0346	07/12/24	07/16/24	EPA 6020B	
Barium	163	0.400	"	"	"	"	"	"	
Cadmium	0.282	0.200	"	"	"	"	"	"	
Copper	6.49	0.400	"	"	"	"	"	"	
Lead	10.8	0.200	"	"	"	"	"	"	
Nickel	7.51	0.400	"	"	"	"	"	"	
Silver	0.0627	0.0200	"	"	"	"	"	"	
Zinc	24.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/10/24 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0348	07/12/24	07/12/24	EPA 7196A	

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

Date Sampled: **07/10/24 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	45.5	0.0500	mg/L dry	1	BHG0338	07/12/24	07/16/24	EPA 6020B	
Magnesium	8.73	0.0500	"	"	"	"	"	"	
Sodium	3.88	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG03-3FT
2407144-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/10/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.138	0.00100	units	1	BHG0446	07/17/24	07/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/10/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.4		%	1	BHG0343	07/12/24	07/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/10/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.117	0.0100	mmhos/cm	1	BHG0356	07/12/24	07/15/24	EPA 120.1	

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

Date Sampled: **07/10/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.96		pH Units	1	BHG0355	07/12/24	07/15/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG03-4FT
2407144-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/10/24 13:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHG0342	07/12/24	07/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/10/24 13:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	5.88	0.200	mg/kg dry	1	BHG0346	07/12/24	07/16/24	EPA 6020B	
Barium	245	0.400	"	"	"	"	"	"	
Cadmium	0.296	0.200	"	"	"	"	"	"	
Copper	6.51	0.400	"	"	"	"	"	"	
Lead	10.7	0.200	"	"	"	"	"	"	
Nickel	7.38	0.400	"	"	"	"	"	"	
Silver	0.0823	0.0200	"	"	"	"	"	"	
Zinc	24.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/10/24 13:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0348	07/12/24	07/12/24	EPA 7196A	

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

Date Sampled: **07/10/24 13:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	23.5	0.0500	mg/L dry	1	BHG0338	07/12/24	07/16/24	EPA 6020B	
Magnesium	8.02	0.0500	"	"	"	"	"	"	
Sodium	5.08	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG03-4FT
2407144-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/10/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.231	0.00100	units	1	BHG0446	07/17/24	07/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/10/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.9		%	1	BHG0343	07/12/24	07/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/10/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.194	0.0100	mmhos/cm	1	BHG0356	07/12/24	07/15/24	EPA 120.1	

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

Date Sampled: **07/10/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.61		pH Units	1	BHG0355	07/12/24	07/15/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG03-5FT
2407144-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/10/24 13:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHG0342	07/12/24	07/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/10/24 13:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	6.03	0.200		mg/kg dry	1	BHG0346	07/12/24	07/16/24	EPA 6020B	
Barium	183	0.400		"	"	"	"	"	"	
Cadmium	0.290	0.200		"	"	"	"	"	"	
Copper	6.60	0.400		"	"	"	"	"	"	
Lead	11.4	0.200		"	"	"	"	"	"	
Nickel	7.56	0.400		"	"	"	"	"	"	
Silver	0.0574	0.0200		"	"	"	"	"	"	
Zinc	25.5	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/10/24 13:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHG0348	07/12/24	07/12/24	EPA 7196A	

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

Date Sampled: **07/10/24 13:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	15.9	0.0500		mg/L dry	1	BHG0338	07/12/24	07/16/24	EPA 6020B	
Magnesium	6.07	0.0500		"	"	"	"	"	"	
Sodium	4.30	0.0500		"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG03-5FT
2407144-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/10/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.233	0.00100	units	1	BHG0446	07/17/24	07/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/10/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.8		%	1	BHG0343	07/12/24	07/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/10/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.141	0.0100	mmhos/cm	1	BHG0356	07/12/24	07/15/24	EPA 120.1	

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

Date Sampled: **07/10/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.07		pH Units	1	BHG0355	07/12/24	07/15/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG04-0.5FT
2407144-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/10/24 13:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHG0342	07/12/24	07/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/10/24 13:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	6.66	0.179	mg/kg dry	1	BHG0346	07/12/24	07/16/24	EPA 6020B	
Barium	147	0.357	"	"	"	"	"	"	
Cadmium	0.326	0.179	"	"	"	"	"	"	
Copper	7.29	0.357	"	"	"	"	"	"	
Lead	13.7	0.179	"	"	"	"	"	"	
Nickel	7.53	0.357	"	"	"	"	"	"	
Silver	0.0798	0.0179	"	"	"	"	"	"	
Zinc	28.0	0.357	"	"	"	"	"	"	
Selenium	0.232	0.232	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/10/24 13:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0348	07/12/24	07/12/24	EPA 7196A	

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

Date Sampled: **07/10/24 13:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	58.1	0.0500	mg/L dry	1	BHG0338	07/12/24	07/16/24	EPA 6020B	
Magnesium	7.01	0.0500	"	"	"	"	"	"	
Sodium	20.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG04-0.5FT
2407144-13 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/10/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.660	0.00100	units	1	BHG0446	07/17/24	07/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/10/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.3		%	1	BHG0343	07/12/24	07/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/10/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.165	0.0100	mmhos/cm	1	BHG0356	07/12/24	07/15/24	EPA 120.1	

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

Date Sampled: **07/10/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.92		pH Units	1	BHG0355	07/12/24	07/15/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG04-3FT
2407144-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/10/24 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHG0342	07/12/24	07/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/10/24 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	5.46	0.200		mg/kg dry	1	BHG0346	07/12/24	07/16/24	EPA 6020B	
Barium	131	0.400		"	"	"	"	"	"	
Cadmium	0.283	0.200		"	"	"	"	"	"	
Copper	6.20	0.400		"	"	"	"	"	"	
Lead	10.4	0.200		"	"	"	"	"	"	
Nickel	7.47	0.400		"	"	"	"	"	"	
Silver	0.0449	0.0200		"	"	"	"	"	"	
Zinc	24.6	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/10/24 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHG0348	07/12/24	07/12/24	EPA 7196A	

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

Date Sampled: **07/10/24 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	115	0.0500		mg/L dry	1	BHG0338	07/12/24	07/16/24	EPA 6020B	
Magnesium	15.3	0.0500		"	"	"	"	"	"	
Sodium	4.28	0.0500		"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG04-3FT
2407144-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/10/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0995	0.00100	units	1	BHG0446	07/17/24	07/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/10/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.1		%	1	BHG0343	07/12/24	07/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/10/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.124	0.0100	mmhos/cm	1	BHG0356	07/12/24	07/15/24	EPA 120.1	

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

Date Sampled: **07/10/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.81		pH Units	1	BHG0355	07/12/24	07/15/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG04-4FT
2407144-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/10/24 14:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHG0342	07/12/24	07/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/10/24 14:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	5.01	0.200	mg/kg dry	1	BHG0345	07/12/24	07/17/24	EPA 6020B	
Barium	138	0.400	"	"	"	"	"	"	
Cadmium	0.326	0.200	"	"	"	"	"	"	
Copper	7.09	0.400	"	"	"	"	"	"	
Lead	25.3	0.200	"	"	"	"	"	"	
Nickel	6.97	0.400	"	"	"	"	"	"	
Silver	0.0598	0.0200	"	"	"	"	"	"	
Zinc	35.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/10/24 14:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0348	07/12/24	07/12/24	EPA 7196A	

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

Date Sampled: **07/10/24 14:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	43.4	0.0500	mg/L dry	1	BHG0338	07/12/24	07/16/24	EPA 6020B	
Magnesium	11.3	0.0500	"	"	"	"	"	"	
Sodium	4.09	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG04-4FT
2407144-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/10/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.143	0.00100	units	1	BHG0446	07/17/24	07/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/10/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.8		%	1	BHG0343	07/12/24	07/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/10/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.102	0.0100	mmhos/cm	1	BHG0356	07/12/24	07/15/24	EPA 120.1	

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

Date Sampled: **07/10/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.99		pH Units	1	BHG0355	07/12/24	07/15/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG04-5FT
2407144-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/10/24 14:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHG0342	07/12/24	07/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/10/24 14:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	4.99	0.200	mg/kg dry	1	BHG0345	07/12/24	07/16/24	EPA 6020B	
Barium	173	0.400	"	"	"	"	"	"	
Cadmium	0.207	0.200	"	"	"	"	"	"	
Copper	5.85	0.400	"	"	"	"	"	"	
Lead	10.2	0.200	"	"	"	"	"	"	
Nickel	7.30	0.400	"	"	"	"	"	"	
Silver	0.0543	0.0200	"	"	"	"	"	"	
Zinc	23.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/10/24 14:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0348	07/12/24	07/12/24	EPA 7196A	

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

Date Sampled: **07/10/24 14:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	34.7	0.0500	mg/L dry	1	BHG0338	07/12/24	07/16/24	EPA 6020B	
Magnesium	13.1	0.0500	"	"	"	"	"	"	
Sodium	5.20	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG04-5FT
2407144-16 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/10/24 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.191	0.00100	units	1	BHG0446	07/17/24	07/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/10/24 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.0		%	1	BHG0343	07/12/24	07/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/10/24 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.119	0.0100	mmhos/cm	1	BHG0356	07/12/24	07/15/24	EPA 120.1	

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

Date Sampled: **07/10/24 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.90		pH Units	1	BHG0355	07/12/24	07/15/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG05-0.5FT
2407144-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/10/24 14:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHG0342	07/12/24	07/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/10/24 14:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	6.08	0.179	mg/kg dry	1	BHG0345	07/12/24	07/16/24	EPA 6020B	
Barium	153	0.357	"	"	"	"	"	"	
Cadmium	0.337	0.179	"	"	"	"	"	"	
Copper	6.51	0.357	"	"	"	"	"	"	
Lead	12.1	0.179	"	"	"	"	"	"	
Nickel	7.58	0.357	"	"	"	"	"	"	
Silver	0.0724	0.0179	"	"	"	"	"	"	
Zinc	25.1	0.357	"	"	"	"	"	"	
Selenium	0.273	0.232	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/10/24 14:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0348	07/12/24	07/12/24	EPA 7196A	

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

Date Sampled: **07/10/24 14:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	26.1	0.0500	mg/L dry	1	BHG0338	07/12/24	07/16/24	EPA 6020B	
Magnesium	6.87	0.0500	"	"	"	"	"	"	
Sodium	13.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG05-0.5FT
2407144-17 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/10/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.590	0.00100	units	1	BHG0446	07/17/24	07/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/10/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.8		%	1	BHG0343	07/12/24	07/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/10/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.392	0.0100	mmhos/cm	1	BHG0356	07/12/24	07/15/24	EPA 120.1	

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

Date Sampled: **07/10/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.15		pH Units	1	BHG0355	07/12/24	07/15/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG05-3FT
2407144-18 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/10/24 14:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHG0342	07/12/24	07/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/10/24 14:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	5.76	0.200	mg/kg dry	1	BHG0345	07/12/24	07/16/24	EPA 6020B	
Barium	126	0.400	"	"	"	"	"	"	
Cadmium	0.288	0.200	"	"	"	"	"	"	
Copper	6.13	0.400	"	"	"	"	"	"	
Lead	10.7	0.200	"	"	"	"	"	"	
Nickel	7.39	0.400	"	"	"	"	"	"	
Silver	0.0867	0.0200	"	"	"	"	"	"	
Zinc	24.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/10/24 14:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0348	07/12/24	07/12/24	EPA 7196A	

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

Date Sampled: **07/10/24 14:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	102	0.0500	mg/L dry	1	BHG0338	07/12/24	07/16/24	EPA 6020B	
Magnesium	11.0	0.0500	"	"	"	"	"	"	
Sodium	2.22	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG05-3FT
2407144-18 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/10/24 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0558	0.00100	units	1	BHG0446	07/17/24	07/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/10/24 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.8		%	1	BHG0343	07/12/24	07/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/10/24 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0747	0.0100	mmhos/cm	1	BHG0356	07/12/24	07/15/24	EPA 120.1	

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

Date Sampled: **07/10/24 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.23		pH Units	1	BHG0355	07/12/24	07/15/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG05-4FT
2407144-19 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/10/24 14:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHG0342	07/12/24	07/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/10/24 14:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	5.40	0.181	mg/kg dry	1	BHG0345	07/12/24	07/17/24	EPA 6020B	
Barium	129	0.362	"	"	"	"	"	"	
Cadmium	0.278	0.181	"	"	"	"	"	"	
Copper	6.46	0.362	"	"	"	"	"	"	
Lead	11.5	0.181	"	"	"	"	"	"	
Nickel	7.06	0.362	"	"	"	"	"	"	
Silver	0.0883	0.0181	"	"	"	"	"	"	
Zinc	24.5	0.362	"	"	"	"	"	"	
Selenium	ND	0.236	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/10/24 14:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0348	07/12/24	07/12/24	EPA 7196A	

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

Date Sampled: **07/10/24 14:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	74.3	0.0500	mg/L dry	1	BHG0338	07/12/24	07/16/24	EPA 6020B	
Magnesium	17.8	0.0500	"	"	"	"	"	"	
Sodium	5.47	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG05-4FT
2407144-19 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/10/24 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.148	0.00100	units	1	BHG0446	07/17/24	07/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/10/24 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.7		%	1	BHG0343	07/12/24	07/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/10/24 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.136	0.0100	mmhos/cm	1	BHG0356	07/12/24	07/15/24	EPA 120.1	

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

Date Sampled: **07/10/24 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.70		pH Units	1	BHG0355	07/12/24	07/15/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG05-5FT
2407144-20 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/10/24 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHG0342	07/12/24	07/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/10/24 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	4.96	0.181	mg/kg dry	1	BHG0345	07/12/24	07/17/24	EPA 6020B	
Barium	143	0.362	"	"	"	"	"	"	
Cadmium	0.216	0.181	"	"	"	"	"	"	
Copper	5.29	0.362	"	"	"	"	"	"	
Lead	9.89	0.181	"	"	"	"	"	"	
Nickel	6.50	0.362	"	"	"	"	"	"	
Silver	0.0459	0.0181	"	"	"	"	"	"	
Zinc	22.2	0.362	"	"	"	"	"	"	
Selenium	ND	0.236	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/10/24 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0348	07/12/24	07/12/24	EPA 7196A	

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

Date Sampled: **07/10/24 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	21.4	0.0500	mg/L dry	1	BHG0338	07/12/24	07/16/24	EPA 6020B	
Magnesium	7.98	0.0500	"	"	"	"	"	"	
Sodium	3.86	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG05-5FT
2407144-20 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/10/24 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.181	0.00100	units	1	BHG0446	07/17/24	07/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/10/24 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.2		%	1	BHG0343	07/12/24	07/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/10/24 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.132	0.0100	mmhos/cm	1	BHG0356	07/12/24	07/15/24	EPA 120.1	

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

Date Sampled: **07/10/24 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.84		pH Units	1	BHG0355	07/12/24	07/15/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG06-0.5FT
2407144-21 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/10/24 14:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHG0342	07/12/24	07/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/10/24 14:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	5.25	0.200	mg/kg dry	1	BHG0345	07/12/24	07/17/24	EPA 6020B	
Barium	134	0.400	"	"	"	"	"	"	
Cadmium	0.275	0.200	"	"	"	"	"	"	
Copper	6.07	0.400	"	"	"	"	"	"	
Lead	10.8	0.200	"	"	"	"	"	"	
Nickel	6.52	0.400	"	"	"	"	"	"	
Silver	0.0686	0.0200	"	"	"	"	"	"	
Zinc	24.1	0.400	"	"	"	"	"	"	
Selenium	0.288	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/10/24 14:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0379	07/15/24	07/15/24	EPA 7196A	

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

Date Sampled: **07/10/24 14:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	21.0	0.0500	mg/L dry	1	BHG0338	07/12/24	07/16/24	EPA 6020B	
Magnesium	5.89	0.0500	"	"	"	"	"	"	
Sodium	11.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG06-0.5FT
2407144-21 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/10/24 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.566	0.00100	units	1	BHG0446	07/17/24	07/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/10/24 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.9		%	1	BHG0343	07/12/24	07/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/10/24 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.177	0.0100	mmhos/cm	1	BHG0356	07/12/24	07/15/24	EPA 120.1	

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

Date Sampled: **07/10/24 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.58		pH Units	1	BHG0355	07/12/24	07/15/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG06-3FT
2407144-22 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/10/24 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHG0342	07/12/24	07/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/10/24 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	5.26	0.180		mg/kg dry	1	BHG0345	07/12/24	07/17/24	EPA 6020B	
Barium	119	0.360		"	"	"	"	"	"	
Cadmium	0.296	0.180		"	"	"	"	"	"	
Copper	5.48	0.360		"	"	"	"	"	"	
Lead	9.91	0.180		"	"	"	"	"	"	
Nickel	6.97	0.360		"	"	"	"	"	"	
Silver	0.0459	0.0180		"	"	"	"	"	"	
Zinc	22.8	0.360		"	"	"	"	"	"	
Selenium	ND	0.234		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/10/24 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHG0379	07/15/24	07/15/24	EPA 7196A	

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

Date Sampled: **07/10/24 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	77.5	0.0500		mg/L dry	1	BHG0338	07/12/24	07/16/24	EPA 6020B	
Magnesium	19.8	0.0500		"	"	"	"	"	"	
Sodium	4.19	0.0500		"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG06-3FT
2407144-22 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/10/24 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.110	0.00100	units	1	BHG0446	07/17/24	07/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/10/24 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.6		%	1	BHG0343	07/12/24	07/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/10/24 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.149	0.0100	mmhos/cm	1	BHG0356	07/12/24	07/15/24	EPA 120.1	

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

Date Sampled: **07/10/24 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.80		pH Units	1	BHG0355	07/12/24	07/15/24	EPA 9045D	

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Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG06-4FT
2407144-23 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/10/24 14:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHG0342	07/12/24	07/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/10/24 14:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	4.58	0.200		mg/kg dry	1	BHG0345	07/12/24	07/17/24	EPA 6020B	
Barium	176	0.400		"	"	"	"	"	"	
Cadmium	0.289	0.200		"	"	"	"	"	"	
Copper	7.16	0.400		"	"	"	"	"	"	
Lead	9.92	0.200		"	"	"	"	"	"	
Nickel	6.45	0.400		"	"	"	"	"	"	
Silver	0.0538	0.0200		"	"	"	"	"	"	
Zinc	29.8	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/10/24 14:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHG0379	07/15/24	07/15/24	EPA 7196A	

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

Date Sampled: **07/10/24 14:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	26.7	0.0500		mg/L dry	1	BHG0338	07/12/24	07/16/24	EPA 6020B	
Magnesium	18.7	0.0500		"	"	"	"	"	"	
Sodium	6.64	0.0500		"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG06-4FT
2407144-23 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/10/24 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.241	0.00100	units	1	BHG0446	07/17/24	07/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/10/24 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.7		%	1	BHG0343	07/12/24	07/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/10/24 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.155	0.0100	mmhos/cm	1	BHG0356	07/12/24	07/15/24	EPA 120.1	

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

Date Sampled: **07/10/24 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.84		pH Units	1	BHG0355	07/12/24	07/15/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG06-5FT
2407144-24 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/10/24 14:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHG0342	07/12/24	07/13/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/10/24 14:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	5.58	0.200		mg/kg dry	1	BHG0345	07/12/24	07/17/24	EPA 6020B	
Barium	154	0.400		"	"	"	"	"	"	
Cadmium	0.248	0.200		"	"	"	"	"	"	
Copper	6.40	0.400		"	"	"	"	"	"	
Lead	11.2	0.200		"	"	"	"	"	"	
Nickel	7.40	0.400		"	"	"	"	"	"	
Silver	0.0432	0.0200		"	"	"	"	"	"	
Zinc	25.0	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/10/24 14:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHG0379	07/15/24	07/15/24	EPA 7196A	

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

Date Sampled: **07/10/24 14:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	11.1	0.0500		mg/L dry	1	BHG0338	07/12/24	07/16/24	EPA 6020B	
Magnesium	10.3	0.0500		"	"	"	"	"	"	
Sodium	6.42	0.0500		"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

BKG06-5FT
2407144-24 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/10/24 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.334	0.00100	units	1	BHG0446	07/17/24	07/17/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/10/24 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.6		%	1	BHG0343	07/12/24	07/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/10/24 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.169	0.0100	mmhos/cm	1	BHG0356	07/12/24	07/15/24	EPA 120.1	

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

Date Sampled: **07/10/24 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.88		pH Units	1	BHG0355	07/12/24	07/15/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

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

Summit Scientific

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

Batch BHG0340 - EPA 3050B

Blank (BHG0340-BLK1)				Prepared: 07/12/24 Analyzed: 07/13/24						
Boron	ND	2.00	mg/L							
LCS (BHG0340-BS1)				Prepared: 07/12/24 Analyzed: 07/13/24						
Boron	4.98	2.00	mg/L	5.00		99.6	80-120			
Duplicate (BHG0340-DUP1)				Source: 2407137-01		Prepared: 07/12/24 Analyzed: 07/13/24				
Boron	0.0521	2.00	mg/L		0.106			67.8	20	QR-01
Matrix Spike (BHG0340-MS1)				Source: 2407137-01		Prepared: 07/12/24 Analyzed: 07/13/24				
Boron	5.08	2.00	mg/L	5.02	0.106	99.0	75-125			
Matrix Spike Dup (BHG0340-MSD1)				Source: 2407137-01		Prepared: 07/12/24 Analyzed: 07/13/24				
Boron	5.34	2.00	mg/L	5.02	0.106	104	75-125	4.96	25	

Batch BHG0342 - EPA 3050B

Blank (BHG0342-BLK1)				Prepared: 07/12/24 Analyzed: 07/13/24						
Boron	ND	2.00	mg/L							
LCS (BHG0342-BS1)				Prepared: 07/12/24 Analyzed: 07/13/24						
Boron	4.97	2.00	mg/L	5.00		99.5	80-120			
Duplicate (BHG0342-DUP1)				Source: 2407144-05		Prepared: 07/12/24 Analyzed: 07/13/24				
Boron	0.282	2.00	mg/L		0.327			14.6	20	
Matrix Spike (BHG0342-MS1)				Source: 2407144-05		Prepared: 07/12/24 Analyzed: 07/13/24				
Boron	5.33	2.00	mg/L	4.95	0.327	101	75-125			

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Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Gollner (BKG) Project Number: UWRWE-A3585-ABN Project Manager: Paul Henchan	Reported: 07/18/24 09:24
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Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BHG0342 - EPA 3050B

Matrix Spike Dup (BHG0342-MSD1)	Source: 2407144-05			Prepared: 07/12/24 Analyzed: 07/13/24						
Boron	5.81	2.00	mg/L	4.95	0.327	111	75-125	8.71	25	

Statistical Review



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

Total Metals by EPA 6020B - Quality Control
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Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BHG0345 - EPA 3050B

Blank (BHG0345-BLK1)

Prepared: 07/12/24 Analyzed: 07/17/24

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

LCS (BHG0345-BS1)

Prepared: 07/12/24 Analyzed: 07/17/24

Arsenic	38.9	0.200	mg/kg wet	40.0	97.3	80-120
Barium	38.6	0.400	"	40.0	96.4	80-120
Cadmium	1.93	0.200	"	2.00	96.3	80-120
Copper	39.9	0.400	"	40.0	99.7	80-120
Lead	19.0	0.200	"	20.0	95.2	80-120
Nickel	39.9	0.400	"	40.0	99.8	80-120
Silver	1.94	0.0200	"	2.00	96.8	80-120
Zinc	39.1	0.400	"	40.0	97.6	80-120
Selenium	3.79	0.260	"	4.00	94.7	80-120

Duplicate (BHG0345-DUP1)

Source: 2407144-15

Prepared: 07/12/24 Analyzed: 07/17/24

Arsenic	6.90	0.200	mg/kg dry	5.01	31.7	20	QR-04
Barium	179	0.400	"	138	26.3	20	QR-04
Cadmium	0.373	0.200	"	0.326	13.3	20	
Copper	8.01	0.400	"	7.09	12.2	20	
Lead	38.2	0.200	"	25.3	40.6	20	QR-04
Nickel	7.83	0.400	"	6.97	11.7	20	
Silver	0.0641	0.0200	"	0.0598	6.90	20	
Zinc	43.6	0.400	"	35.7	19.7	20	
Selenium	0.244	0.260	"	0.215	12.6	20	

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Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

Total Metals by EPA 6020B - Quality Control
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Analyte	Reporting			Spike	Source	%REC		RPD		
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BHG0345 - EPA 3050B

Matrix Spike (BHG0345-MS1)

Source: 2407144-15

Prepared: 07/12/24 Analyzed: 07/17/24

Arsenic	49.6	0.200	mg/kg dry	47.2	5.01	94.6	75-125			
Barium	202	0.400	"	47.2	138	136	75-125			QM-07
Cadmium	2.58	0.200	"	2.36	0.326	95.6	75-125			
Copper	29.8	0.400	"	47.2	7.09	48.1	75-125			QM-05
Lead	62.7	0.200	"	23.6	25.3	159	75-125			QM-07
Nickel	29.4	0.400	"	47.2	6.97	47.6	75-125			QM-05
Silver	2.25	0.0200	"	2.36	0.0598	92.8	75-125			
Zinc	60.0	0.400	"	47.2	35.7	51.5	75-125			QM-05
Selenium	3.73	0.260	"	4.72	0.215	74.5	75-125			QM-07

Matrix Spike Dup (BHG0345-MSD1)

Source: 2407144-15

Prepared: 07/12/24 Analyzed: 07/17/24

Arsenic	49.4	0.200	mg/kg dry	45.7	5.01	97.2	75-125	0.376	25	
Barium	207	0.400	"	45.7	138	153	75-125	2.81	25	QM-07
Cadmium	2.56	0.200	"	2.28	0.326	97.9	75-125	0.676	25	
Copper	28.2	0.400	"	45.7	7.09	46.2	75-125	5.56	25	QM-05
Lead	77.7	0.200	"	22.8	25.3	229	75-125	21.3	25	QM-07
Nickel	28.1	0.400	"	45.7	6.97	46.2	75-125	4.69	25	QM-05
Silver	2.18	0.0200	"	2.28	0.0598	93.0	75-125	2.88	25	
Zinc	58.3	0.400	"	45.7	35.7	49.3	75-125	2.95	25	QM-05
Selenium	3.63	0.260	"	4.57	0.215	74.8	75-125	2.61	25	QM-07

Post Spike (BHG0345-PS1)

Source: 2407144-15

Prepared: 07/12/24 Analyzed: 07/17/24

Arsenic	113		ug/l	100	10.6	103	75-125			
Barium	391		"	100	292	98.7	75-125			
Cadmium	5.79		"	5.00	0.691	102	75-125			
Copper	65.4		"	100	15.0	50.3	75-125			QM-01
Lead	104		"	50.0	53.7	101	75-125			
Nickel	65.0		"	100	14.8	50.2	75-125			QM-01
Silver	5.25		"	5.00	0.127	103	75-125			
Zinc	129		"	100	75.8	52.8	75-125			QM-01
Selenium	8.84		"	10.0	0.456	83.9	75-125			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHG0346 - EPA 3050B

Blank (BHG0346-BLK1)

Prepared: 07/12/24 Analyzed: 07/17/24

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

LCS (BHG0346-BS1)

Prepared: 07/12/24 Analyzed: 07/17/24

Arsenic	38.6	0.200	mg/kg wet	40.0	96.4	80-120
Barium	39.0	0.400	"	40.0	97.5	80-120
Cadmium	1.93	0.200	"	2.00	96.4	80-120
Copper	40.3	0.400	"	40.0	101	80-120
Lead	19.1	0.200	"	20.0	95.4	80-120
Nickel	40.4	0.400	"	40.0	101	80-120
Silver	1.92	0.0200	"	2.00	96.0	80-120
Zinc	39.5	0.400	"	40.0	98.7	80-120
Selenium	3.71	0.260	"	4.00	92.7	80-120

Duplicate (BHG0346-DUP1)

Source: 2407142-02

Prepared: 07/12/24 Analyzed: 07/17/24

Arsenic	5.83	0.200	mg/kg dry	5.41	7.40	20	QR-03
Barium	226	0.400	"	140	47.2	20	
Cadmium	0.322	0.200	"	0.288	11.1	20	
Copper	6.78	0.400	"	6.82	0.662	20	
Lead	11.0	0.200	"	11.0	0.160	20	
Nickel	7.85	0.400	"	7.57	3.63	20	
Silver	0.0555	0.0200	"	0.0475	15.5	20	
Zinc	25.5	0.400	"	24.9	2.68	20	
Selenium	ND	0.260	"	ND		20	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHG0346 - EPA 3050B

Matrix Spike (BHG0346-MS1)

Source: 2407142-02

Prepared: 07/12/24 Analyzed: 07/17/24

Arsenic	55.7	0.200	mg/kg dry	53.3	5.41	94.3	75-125			
Barium	266	0.400	"	53.3	140	237	75-125			QM-07
Cadmium	2.87	0.200	"	2.67	0.288	97.0	75-125			
Copper	32.0	0.400	"	53.3	6.82	47.2	75-125			QM-05
Lead	35.8	0.200	"	26.7	11.0	92.8	75-125			
Nickel	33.1	0.400	"	53.3	7.57	47.8	75-125			QM-05
Silver	2.54	0.0200	"	2.67	0.0475	93.4	75-125			
Zinc	51.5	0.400	"	53.3	24.9	49.9	75-125			QM-05
Selenium	3.78	0.260	"	5.33	ND	70.8	75-125			QM-07

Matrix Spike Dup (BHG0346-MSD1)

Source: 2407142-02

Prepared: 07/12/24 Analyzed: 07/17/24

Arsenic	53.5	0.200	mg/kg dry	50.9	5.41	94.5	75-125	4.00	25	
Barium	213	0.400	"	50.9	140	145	75-125	21.8	25	QM-07
Cadmium	2.69	0.200	"	2.54	0.288	94.3	75-125	6.69	25	
Copper	30.4	0.400	"	50.9	6.82	46.3	75-125	5.14	25	QM-05
Lead	34.5	0.200	"	25.4	11.0	92.5	75-125	3.44	25	
Nickel	31.6	0.400	"	50.9	7.57	47.2	75-125	4.63	25	QM-05
Silver	2.39	0.0200	"	2.54	0.0475	92.3	75-125	5.85	25	
Zinc	49.7	0.400	"	50.9	24.9	48.9	75-125	3.47	25	QM-05
Selenium	3.44	0.260	"	5.09	ND	67.5	75-125	9.41	25	QM-07

Post Spike (BHG0346-PS1)

Source: 2407142-02

Prepared: 07/12/24 Analyzed: 07/17/24

Arsenic	113		ug/l	100	10.1	103	75-125			
Barium	381		"	100	262	119	75-125			
Cadmium	5.62		"	5.00	0.540	102	75-125			
Copper	61.8		"	100	12.8	49.0	75-125			QM-01
Lead	71.0		"	50.0	20.6	101	75-125			
Nickel	63.9		"	100	14.2	49.7	75-125			QM-01
Silver	5.11		"	5.00	0.0890	100	75-125			
Zinc	99.4		"	100	46.6	52.8	75-125			QM-01
Selenium	8.46		"	10.0	0.205	82.5	75-125			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHG0348 - 3060A Mod

Blank (BHG0348-BLK1)					Prepared & Analyzed: 07/12/24					
Chromium, Hexavalent	ND	0.30	mg/kg wet							
LCS (BHG0348-BS1)					Prepared & Analyzed: 07/12/24					
Chromium, Hexavalent	24.2	0.30	mg/kg wet	25.0		97.0	80-120			
Duplicate (BHG0348-DUP1)					Source: 2407144-01 Prepared & Analyzed: 07/12/24					
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
Matrix Spike (BHG0348-MS1)					Source: 2407144-01 Prepared & Analyzed: 07/12/24					
Chromium, Hexavalent	25.6	0.30	mg/kg dry	28.0	ND	91.2	75-125			
Matrix Spike Dup (BHG0348-MSD1)					Source: 2407144-01 Prepared & Analyzed: 07/12/24					
Chromium, Hexavalent	25.6	0.30	mg/kg dry	28.0	ND	91.4	75-125	0.219	20	

Batch BHG0379 - 3060A Mod

Blank (BHG0379-BLK1)					Prepared & Analyzed: 07/15/24					
Chromium, Hexavalent	ND	0.30	mg/kg wet							
LCS (BHG0379-BS1)					Prepared & Analyzed: 07/15/24					
Chromium, Hexavalent	25.2	0.30	mg/kg wet	25.0		101	80-120			
Duplicate (BHG0379-DUP1)					Source: 2407143-01 Prepared & Analyzed: 07/15/24					
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
Matrix Spike (BHG0379-MS1)					Source: 2407143-01 Prepared & Analyzed: 07/15/24					
Chromium, Hexavalent	28.3	0.30	mg/kg dry	29.2	ND	96.8	75-125			

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Fremont Environmental	Project: Noble - Gollner (BKG)	
PO Box 1289	Project Number: UWRWE-A3585-ABN	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	07/18/24 09:24

Hexavalent Chromium by EPA Method 7196 - Quality Control

Summit Scientific

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

Batch BHG0379 - 3060A Mod

Matrix Spike Dup (BHG0379-MSD1)	Source: 2407143-01			Prepared & Analyzed: 07/15/24						
Chromium, Hexavalent	28.7	0.30	mg/kg dry	29.2	ND	98.2	75-125	1.44	20	

Atalio Bessin



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

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

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

Batch BHG0338 - General Preparation

Blank (BHG0338-BLK1)

Prepared: 07/12/24 Analyzed: 07/16/24

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

LCS (BHG0338-BS1)

Prepared: 07/12/24 Analyzed: 07/16/24

Calcium	4.82	0.0500	mg/L wet	5.00	96.3	70-130
Magnesium	5.10	0.0500	"	5.00	102	70-130
Sodium	5.01	0.0500	"	5.00	100	70-130

Summit Scientific

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Fremont Environmental	Project: Noble - Gollner (BKG)	
PO Box 1289	Project Number: UWRWE-A3585-ABN	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	07/18/24 09:24

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

Summit Scientific

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

Batch BHG0343 - General Preparation

Duplicate (BHG0343-DUP1)		Source: 2407144-01		Prepared: 07/12/24 Analyzed: 07/15/24						
% Solids	86.4		%		89.2			3.20	20	

Atalio Bessin



Fremont Environmental
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Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

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

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

Batch BHG0356 - General Preparation

Blank (BHG0356-BLK1)

Prepared: 07/12/24 Analyzed: 07/15/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHG0356-BS1)

Prepared: 07/12/24 Analyzed: 07/15/24

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

Duplicate (BHG0356-DUP1)

Source: 2407144-01

Prepared: 07/12/24 Analyzed: 07/15/24

Specific Conductance (EC) 0.0941 0.0100 mmhos/cm 0.0962 2.19 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)
Project Number: UWRWE-A3585-ABN
Project Manager: Paul Henchan

Reported:
07/18/24 09:24

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

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

Batch BHG0355 - General Preparation

LCS (BHG0355-BS1)

Prepared: 07/12/24 Analyzed: 07/15/24

pH	9.13	pH Units	9.18	99.5	95-105
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Duplicate (BHG0355-DUP1)

Source: 2407144-01

Prepared: 07/12/24 Analyzed: 07/15/24

pH	8.63	pH Units	8.71	0.923	20
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Gollner (BKG)

Project Number: UWRWE-A3585-ABN

Project Manager: Paul Henchan

Reported:
07/18/24 09:24

Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
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