

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 06, 2024

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Noble - Johnson C29-28 FL

Work Order #2408011

Enclosed are the results of analyses for samples received by Summit Scientific on 08/01/24 17:59. 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



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

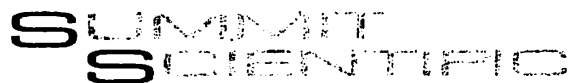
Reported:
08/06/24 09:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS01-FL01-03@4'	2408011-01	Soil	08/01/24 12:32	08/01/24 17:59
SS01-FL01-03@3'	2408011-02	Soil	08/01/24 12:35	08/01/24 17:59
SS02-FL01-03@3'	2408011-03	Soil	08/01/24 12:37	08/01/24 17:59
SS03-FL01-03@3'	2408011-04	Soil	08/01/24 12:42	08/01/24 17:59
SS04-FL01-03@3'	2408011-05	Soil	08/01/24 12:45	08/01/24 17:59
BKG02@3'	2408011-06	Soil	08/01/24 11:02	08/01/24 17:59
BKG02@4'	2408011-07	Soil	08/01/24 11:03	08/01/24 17:59
BKG03@3'	2408011-08	Soil	08/01/24 11:37	08/01/24 17:59
BKG03@4'	2408011-09	Soil	08/01/24 11:38	08/01/24 17:59
BKG04@3'	2408011-10	Soil	08/01/24 11:47	08/01/24 17:59
BKG04@4'	2408011-11	Soil	08/01/24 11:48	08/01/24 17:59
BKG05@3'	2408011-12	Soil	08/01/24 12:10	08/01/24 17:59
BKG05@4'	2408011-13	Soil	08/01/24 12:11	08/01/24 17:59
BKG06@3'	2408011-14	Soil	08/01/24 10:32	08/01/24 17:59
BKG06@4'	2408011-15	Soil	08/01/24 10:33	08/01/24 17:59

Summit Scientific

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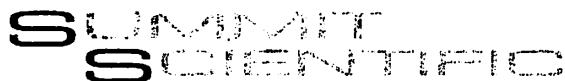
4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page 1 of 2
2408011-1	

Send Data To:		Send Invoice To:
Client: Noble/Tasman	Project Manager: Jake Whritenour	Company: Noble
Address: 6855 W. 119th Ave.	E-Mail: Jwhritenour@tasman-geo.com	Project Name/Location: Johnson C29-28 Flowline
City/State/Zip: Broomfield/CO/ 80020		AFE#:
Phone: 937-554-5108	Project Name: Johnson C29-28 Flowline	PO/Billing Codes:
Sampler Name: Molly Parks Sylvie B.	Project Number: 34724	Contact: Keith McLean

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested								Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Metals - 915	VOC - 915	TPH - 915	PAH - 915	SAR, EC, pH	Boron - HWS	HOLD	
1	FSOI-FL01-03@4'	8-1-24	12:32	3			X			X			X	X	X	X	X	X		SAR, EC, pH by saturated paste
2	SS01-FL01-03@3'		12:35				X			X			X	X	X	X	X	X		
3	SS02-FL01-03@3'		12:37				X			X			X	X	X	X	X	X		
4	SS03-FL01-03@3'		12:42				X			X			X	X	X	X	X	X		
5	SS04-FL01-03@3'		12:45				X			X			X	X	X	X	X	X		
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: Date/Time: 8-1-24 16:20	Received by: Tasman Lock Box Date/Time: 8-1-24 16:20	TAT Business Days	Field DO	Notes:
		Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by: Date/Time: 8/24 17:59	Received by: Date/Time: 8/24 17:59	1 Day	Field ORP	
		2 Days	Field pH	
		3 Days	Field Temp.	
		Standard	Field Turb.	
Temperature Upon Receipt: 6.8	Corrected Temperature: 0	IR gun #: 1	HNO3 lot #:	



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

Lab ID	Page 2 of 2
2408011.2	

				Send Data To:				Send Invoice To:													
Client: Noble/Tasman				Project Manager: Jake Whritenour				Company: Noble													
Address: 6855 W. 119th Ave.				E-Mail: Jwhritenour@tasman-geo.com				Project Name/Location: Johnson C29-28 Flowline													
City/State/Zip: Broomfield/CO/ 80020								AFE#:													
Phone: 937-554-5108				Project Name: Johnson C29-28 Flowline				PO/Billing Codes:													
Sampler Name: Molly Parks ^{SS} Sylvie Bouquet				Project Number: 34724				Contact: Keith McLean													
				Preservative				Matrix				Analysis Requested				Special Instructions					
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Metals - 915	VOC - 915	TPH - 915	PAH - 915	SAR, EC, pH	Boron - HWS	HOLD		
1	BK60203'	8-1-24	11:02	3			X			X			X	X	X	X	X	X			SAR, EC, pH by saturated paste
2	BK60204'		11:03																		
3	BK60303'		11:37																		
4	BK60304'		11:38																		
5	BK60403'		11:47																		
6	BK60404'		11:48																		
7	BK60503'		12:10																		
8	BK60504'		12:11																		
9	BK60603'		10:32																		
10	BK60604'		10:33																		
11																					
12																					
13																					
14																					
15																					

Relinquished by: <u>Sylvie B.</u>	Date/Time: <u>8-1-24 16:20</u>	Received by: <u>Tasman Lock Box</u>	Date/Time: <u>8-1-24 16:20</u>	TAT Business Days	Field DO	Notes:
				Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by: <u>Tasman Lock Box</u>	Date/Time: <u>8/24/24</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8/24/24</u>	1 Day <input type="checkbox"/>	Field ORP	
				2 Days <input type="checkbox"/>	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days <input type="checkbox"/>	Field Temp.	
				Standard <input type="checkbox"/>	Field Turb.	
Temperature Upon Receipt: <u>8.8</u>		Corrected Temperature: <u>8</u>		IR gun #: <u>1</u>		HNO3 lot #: <u></u>

S₂

2/2

Sample Receipt Checklist

S2 Work Order# 2408011Client: Nick Torman

Client Project ID:

Johnson C29-28 Flowline

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

Airbill #:

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Matrix (Check all that apply)

Air

☐

Soil/Solid

☒

Water

☐

Other

☐

Temp (°C)

8.8

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"/>	on ice
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

8/1/24
Date/Time



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

FS01-FL01-03@4'
2408011-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/01/24 12:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHH0038	08/01/24	08/01/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **08/01/24 12:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0435	109 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0413	103 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/01/24 12:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHH0037	08/01/24	08/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **08/01/24 12:32**

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

PAH by EPA Method 8270D SIM

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2408011-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **08/01/24 12:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0055	08/02/24	08/02/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/01/24 12:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0184	55.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0165	49.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/24 12:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0070	08/02/24	08/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/24 12:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Broomfield CO, 80020

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Project Manager: Jacob Whritenour

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FS01-FL01-03@4'
2408011-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.80	0.180	mg/kg dry	1	BHH0066	08/02/24	08/05/24	EPA 6020B
Barium	74.1	0.360	"	"	"	"	"	"
Cadmium	ND	0.180	"	"	"	"	"	"
Copper	3.66	0.360	"	"	"	"	"	"
Lead	5.49	0.180	"	"	"	"	"	"
Nickel	4.42	0.360	"	"	"	"	"	"
Silver	0.0260	0.0180	"	"	"	"	"	"
Zinc	16.0	0.360	"	"	"	"	"	"
Selenium	ND	0.234	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/01/24 12:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0062	08/02/24	08/02/24	EPA 7196A	

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

Date Sampled: **08/01/24 12:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	52.2	0.0500	mg/L dry	1	BHH0051	08/01/24	08/02/24	EPA 6020B	
Magnesium	10.4	0.0500	"	"	"	"	"	"	
Sodium	76.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/24 12:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.53	0.00100	units	1	BHH0102	08/05/24	08/05/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project Number: UWRWE-A3072-ABN 34724
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Reported:
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FS01-FL01-03@4'
2408011-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/24 12:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.1		%	1	BHH0050	08/02/24	08/02/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/24 12:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.636	0.0100	mmhos/cm	1	BHH0053	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **08/01/24 12:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.98		pH Units	1	BHH0052	08/01/24	08/02/24	EPA 9045D	

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Project Number: UWRWE-A3072-ABN 34724
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Reported:
08/06/24 09:40

SS01-FL01-03@3'
2408011-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/01/24 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0038	08/01/24	08/01/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/01/24 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0421	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0409	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0399	99.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/01/24 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0037	08/01/24	08/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/01/24 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.34	66.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Johnson C29-28 FL
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Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

SS01-FL01-03@3'
2408011-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/01/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0055	08/02/24	08/02/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/01/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0224	67.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0221	66.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0070	08/02/24	08/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

SS01-FL01-03@3'
2408011-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	4.20	0.200	mg/kg dry	1	BHH0066	08/02/24	08/05/24	EPA 6020B
Barium	71.8	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	4.07	0.400	"	"	"	"	"	"
Lead	5.76	0.200	"	"	"	"	"	"
Nickel	5.40	0.400	"	"	"	"	"	"
Silver	0.0387	0.0200	"	"	"	"	"	"
Zinc	16.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/01/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0062	08/02/24	08/02/24	EPA 7196A	

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

Date Sampled: **08/01/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	81.1	0.0500	mg/L dry	1	BHH0051	08/01/24	08/02/24	EPA 6020B	
Magnesium	22.2	0.0500	"	"	"	"	"	"	
Sodium	229	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.81	0.00100	units	1	BHH0102	08/05/24	08/05/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Tasman Geosciences
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Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

SS01-FL01-03@3'
2408011-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.1		%	1	BHH0050	08/02/24	08/02/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.51	0.0100	mmhos/cm	1	BHH0053	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **08/01/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.10		pH Units	1	BHH0052	08/01/24	08/02/24	EPA 9045D	

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Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

SS02-FL01-03@3'
2408011-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/01/24 12:37**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0038	08/01/24	08/01/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/01/24 12:37**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0250	62.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0437	109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0390	97.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/01/24 12:37**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0037	08/01/24	08/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/01/24 12:37**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.33	66.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

SS02-FL01-03@3'
2408011-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/01/24 12:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0055	08/02/24	08/02/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/01/24 12:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0180	53.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0182	54.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/24 12:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0070	08/02/24	08/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/24 12:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

SS02-FL01-03@3'
2408011-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.95	0.200	mg/kg dry	1	BHH0066	08/02/24	08/05/24	EPA 6020B
Barium	65.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.39	0.400	"	"	"	"	"	"
Lead	4.76	0.200	"	"	"	"	"	"
Nickel	4.89	0.400	"	"	"	"	"	"
Silver	0.0240	0.0200	"	"	"	"	"	"
Zinc	14.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/01/24 12:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0062	08/02/24	08/02/24	EPA 7196A	

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

Date Sampled: **08/01/24 12:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	96.0	0.0500	mg/L dry	1	BHH0051	08/01/24	08/02/24	EPA 6020B	
Magnesium	10.3	0.0500	"	"	"	"	"	"	
Sodium	59.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/24 12:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.54	0.00100	units	1	BHH0102	08/05/24	08/05/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

SS02-FL01-03@3'
2408011-03 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/24 12:37**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	87.1			%	1	BHH0050	08/02/24	08/02/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/24 12:37**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.470	0.0100		mmhos/cm	1	BHH0053	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **08/01/24 12:37**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.17			pH Units	1	BHH0052	08/01/24	08/02/24	EPA 9045D	

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Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

SS03-FL01-03@3'
2408011-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/01/24 12:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0038	08/01/24	08/01/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/01/24 12:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0423	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0414	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0405	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/01/24 12:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0037	08/01/24	08/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/01/24 12:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.1	81.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

SS03-FL01-03@3'
2408011-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/01/24 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0055	08/02/24	08/02/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/01/24 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0227	68.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0222	66.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/24 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0070	08/02/24	08/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/24 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

SS03-FL01-03@3'
2408011-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.70	0.200	mg/kg dry	1	BHH0066	08/02/24	08/05/24	EPA 6020B
Barium	57.8	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.53	0.400	"	"	"	"	"	"
Lead	4.98	0.200	"	"	"	"	"	"
Nickel	4.92	0.400	"	"	"	"	"	"
Silver	0.0271	0.0200	"	"	"	"	"	"
Zinc	15.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/01/24 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0062	08/02/24	08/02/24	EPA 7196A	

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

Date Sampled: **08/01/24 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	31.6	0.0500	mg/L dry	1	BHH0051	08/01/24	08/02/24	EPA 6020B	
Magnesium	56.2	0.0500	"	"	"	"	"	"	
Sodium	60.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/24 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.50	0.00100	units	1	BHH0102	08/05/24	08/05/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Reported:
08/06/24 09:40

SS03-FL01-03@3'
2408011-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/24 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.5		%	1	BHH0050	08/02/24	08/02/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/24 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.367	0.0100	mmhos/cm	1	BHH0053	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **08/01/24 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.89		pH Units	1	BHH0052	08/01/24	08/02/24	EPA 9045D	

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Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

SS04-FL01-03@3'
2408011-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/01/24 12:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0038	08/01/24	08/01/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/01/24 12:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0461	115 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0432	108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0421	105 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/01/24 12:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0037	08/01/24	08/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/01/24 12:45**

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

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

SS04-FL01-03@3'
2408011-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/01/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0055	08/02/24	08/02/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/01/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0191	57.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0180	53.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0070	08/02/24	08/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

SS04-FL01-03@3'
2408011-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.15	0.200	mg/kg dry	1	BHH0066	08/02/24	08/05/24	EPA 6020B
Barium	50.8	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.36	0.400	"	"	"	"	"	"
Lead	4.31	0.200	"	"	"	"	"	"
Nickel	4.35	0.400	"	"	"	"	"	"
Silver	0.0277	0.0200	"	"	"	"	"	"
Zinc	13.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/01/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0062	08/02/24	08/02/24	EPA 7196A	

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

Date Sampled: **08/01/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	48.1	0.0500	mg/L dry	1	BHH0051	08/01/24	08/02/24	EPA 6020B	
Magnesium	10.6	0.0500	"	"	"	"	"	"	
Sodium	54.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/01/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.84	0.00100	units	1	BHH0102	08/05/24	08/05/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

SS04-FL01-03@3'
2408011-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.6		%	1	BHH0050	08/02/24	08/02/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.417	0.0100	mmhos/cm	1	BHH0053	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **08/01/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.24		pH Units	1	BHH0052	08/01/24	08/02/24	EPA 9045D	

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Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

BKG02@3'
2408011-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/24 11:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	2.29	2.00		mg/L	1	BHH0070	08/02/24	08/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/24 11:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.73	0.200		mg/kg dry	1	BHH0066	08/02/24	08/05/24	EPA 6020B	
Barium	83.5	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	4.16	0.400		"	"	"	"	"	"	
Lead	6.49	0.200		"	"	"	"	"	"	
Nickel	5.37	0.400		"	"	"	"	"	"	
Silver	0.0355	0.0200		"	"	"	"	"	"	
Zinc	19.8	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/01/24 11:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHH0062	08/02/24	08/02/24	EPA 7196A	

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

Date Sampled: **08/01/24 11:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	109	0.0500		mg/L dry	1	BHH0051	08/01/24	08/02/24	EPA 6020B	
Magnesium	95.7	0.0500		"	"	"	"	"	"	
Sodium	790	0.0500		"	"	"	"	"	"	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

BKG02@3'
2408011-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **08/01/24 11:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	13.3	0.00100	units	1	BHH0102	08/05/24	08/05/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/24 11:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.9		%	1	BHH0050	08/02/24	08/02/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/24 11:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.36	0.0100	mmhos/cm	1	BHH0053	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **08/01/24 11:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.11		pH Units	1	BHH0052	08/01/24	08/02/24	EPA 9045D	

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Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

BKG02@4'
2408011-07 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/24 11:03**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHH0070	08/02/24	08/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/24 11:03**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.63	0.180	mg/kg dry	1	BHH0066	08/02/24	08/05/24	EPA 6020B	
Barium	73.1	0.360	"	"	"	"	"	"	
Cadmium	ND	0.180	"	"	"	"	"	"	
Copper	3.42	0.360	"	"	"	"	"	"	
Lead	5.05	0.180	"	"	"	"	"	"	
Nickel	4.26	0.360	"	"	"	"	"	"	
Silver	0.0230	0.0180	"	"	"	"	"	"	
Zinc	15.4	0.360	"	"	"	"	"	"	
Selenium	ND	0.234	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/01/24 11:03**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0062	08/02/24	08/02/24	EPA 7196A	

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

Date Sampled: **08/01/24 11:03**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	198	0.0500	mg/L dry	1	BHH0051	08/01/24	08/02/24	EPA 6020B	
Magnesium	157	0.0500	"	"	"	"	"	"	
Sodium	881	0.0500	"	"	"	"	"	"	

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

BKG02@4'
2408011-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **08/01/24 11:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	11.4	0.00100	units	1	BHH0102	08/05/24	08/05/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/24 11:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.4		%	1	BHH0050	08/02/24	08/02/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/24 11:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.49	0.0100	mmhos/cm	1	BHH0053	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **08/01/24 11:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.82		pH Units	1	BHH0052	08/01/24	08/02/24	EPA 9045D	

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

BKG03@3'
2408011-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/24 11:37**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	3.32	2.00		mg/L	1	BHH0070	08/02/24	08/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/24 11:37**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.46	0.200		mg/kg dry	1	BHH0066	08/02/24	08/05/24	EPA 6020B	
Barium	81.8	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	5.23	0.400		"	"	"	"	"	"	
Lead	7.31	0.200		"	"	"	"	"	"	
Nickel	5.75	0.400		"	"	"	"	"	"	
Silver	0.0456	0.0200		"	"	"	"	"	"	
Zinc	21.3	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/01/24 11:37**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHH0062	08/02/24	08/02/24	EPA 7196A	

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

Date Sampled: **08/01/24 11:37**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	71.2	0.0500		mg/L dry	1	BHH0051	08/01/24	08/02/24	EPA 6020B	
Magnesium	177	0.0500		"	"	"	"	"	"	
Sodium	1060	0.0500		"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

BKG03@3'
2408011-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **08/01/24 11:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	15.3	0.00100	units	1	BHH0102	08/05/24	08/05/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/24 11:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.5		%	1	BHH0050	08/02/24	08/02/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/24 11:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.16	0.0100	mmhos/cm	1	BHH0053	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **08/01/24 11:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.52		pH Units	1	BHH0052	08/01/24	08/02/24	EPA 9045D	

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

BKG03@4'
2408011-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/24 11:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHH0070	08/02/24	08/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/24 11:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.12	0.179		mg/kg dry	1	BHH0066	08/02/24	08/05/24	EPA 6020B	
Barium	87.1	0.357		"	"	"	"	"	"	
Cadmium	ND	0.179		"	"	"	"	"	"	
Copper	3.57	0.357		"	"	"	"	"	"	
Lead	5.40	0.179		"	"	"	"	"	"	
Nickel	4.91	0.357		"	"	"	"	"	"	
Silver	0.0245	0.0179		"	"	"	"	"	"	
Zinc	16.0	0.357		"	"	"	"	"	"	
Selenium	ND	0.232		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/01/24 11:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHH0062	08/02/24	08/02/24	EPA 7196A	

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

Date Sampled: **08/01/24 11:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	129	0.0500		mg/L dry	1	BHH0051	08/01/24	08/02/24	EPA 6020B	
Magnesium	49.6	0.0500		"	"	"	"	"	"	
Sodium	556	0.0500		"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences
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Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

BKG03@4'
2408011-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **08/01/24 11:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	10.5	0.00100	units	1	BHH0102	08/05/24	08/05/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/24 11:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.0		%	1	BHH0050	08/02/24	08/02/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/24 11:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.97	0.0100	mmhos/cm	1	BHH0053	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **08/01/24 11:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.12		pH Units	1	BHH0052	08/01/24	08/02/24	EPA 9045D	

Summit Scientific

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Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

BKG04@3'
2408011-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/24 11:47**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHH0070	08/02/24	08/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/24 11:47**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.66	0.200		mg/kg dry	1	BHH0066	08/02/24	08/05/24	EPA 6020B	
Barium	61.4	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	3.47	0.400		"	"	"	"	"	"	
Lead	5.06	0.200		"	"	"	"	"	"	
Nickel	4.82	0.400		"	"	"	"	"	"	
Silver	0.0299	0.0200		"	"	"	"	"	"	
Zinc	14.9	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/01/24 11:47**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHH0062	08/02/24	08/02/24	EPA 7196A	

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

Date Sampled: **08/01/24 11:47**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	73.3	0.0500		mg/L dry	1	BHH0051	08/01/24	08/02/24	EPA 6020B	
Magnesium	31.1	0.0500		"	"	"	"	"	"	
Sodium	266	0.0500		"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

BKG04@3'
2408011-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **08/01/24 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.56	0.00100	units	1	BHH0102	08/05/24	08/05/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/24 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.9		%	1	BHH0050	08/02/24	08/02/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/24 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.91	0.0100	mmhos/cm	1	BHH0053	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **08/01/24 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.03		pH Units	1	BHH0052	08/01/24	08/02/24	EPA 9045D	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

BKG04@4'
2408011-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/24 11:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHH0070	08/02/24	08/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/24 11:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.14	0.200	mg/kg dry	1	BHH0066	08/02/24	08/05/24	EPA 6020B	
Barium	69.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.49	0.400	"	"	"	"	"	"	
Lead	4.74	0.200	"	"	"	"	"	"	
Nickel	4.74	0.400	"	"	"	"	"	"	
Silver	0.0260	0.0200	"	"	"	"	"	"	
Zinc	15.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/01/24 11:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0062	08/02/24	08/02/24	EPA 7196A	

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

Date Sampled: **08/01/24 11:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	91.1	0.0500	mg/L dry	1	BHH0051	08/01/24	08/02/24	EPA 6020B	
Magnesium	21.9	0.0500	"	"	"	"	"	"	
Sodium	166	0.0500	"	"	"	"	"	"	

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Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

BKG04@4'
2408011-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **08/01/24 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.05	0.00100	units	1	BHH0102	08/05/24	08/05/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/24 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.0		%	1	BHH0050	08/02/24	08/02/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/24 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.29	0.0100	mmhos/cm	1	BHH0053	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **08/01/24 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.14		pH Units	1	BHH0052	08/01/24	08/02/24	EPA 9045D	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

BKG05@3'
2408011-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/24 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHH0070	08/02/24	08/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/24 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.50	0.200	mg/kg dry	1	BHH0066	08/02/24	08/05/24	EPA 6020B	
Barium	65.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.23	0.400	"	"	"	"	"	"	
Lead	4.72	0.200	"	"	"	"	"	"	
Nickel	4.66	0.400	"	"	"	"	"	"	
Silver	0.0279	0.0200	"	"	"	"	"	"	
Zinc	14.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/01/24 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0062	08/02/24	08/02/24	EPA 7196A	

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

Date Sampled: **08/01/24 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	112	0.0500	mg/L dry	1	BHH0051	08/01/24	08/02/24	EPA 6020B	
Magnesium	13.4	0.0500	"	"	"	"	"	"	
Sodium	158	0.0500	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

BKG05@3'
2408011-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **08/01/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.76	0.00100	units	1	BHH0102	08/05/24	08/05/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.5		%	1	BHH0050	08/02/24	08/02/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.853	0.0100	mmhos/cm	1	BHH0053	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **08/01/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.35		pH Units	1	BHH0052	08/01/24	08/02/24	EPA 9045D	

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Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

BKG05@4'
2408011-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/24 12:11**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHH0070	08/02/24	08/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/24 12:11**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.87	0.180		mg/kg dry	1	BHH0066	08/02/24	08/05/24	EPA 6020B	
Barium	62.6	0.360		"	"	"	"	"	"	
Cadmium	ND	0.180		"	"	"	"	"	"	
Copper	2.70	0.360		"	"	"	"	"	"	
Lead	4.17	0.180		"	"	"	"	"	"	
Nickel	4.26	0.360		"	"	"	"	"	"	
Silver	ND	0.0180		"	"	"	"	"	"	
Zinc	12.2	0.360		"	"	"	"	"	"	
Selenium	ND	0.234		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/01/24 12:11**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHH0062	08/02/24	08/02/24	EPA 7196A	

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

Date Sampled: **08/01/24 12:11**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	198	0.0500		mg/L dry	1	BHH0051	08/01/24	08/02/24	EPA 6020B	
Magnesium	24.5	0.0500		"	"	"	"	"	"	
Sodium	140	0.0500		"	"	"	"	"	"	

Summit Scientific

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Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

BKG05@4'
2408011-13 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **08/01/24 12:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.50	0.00100	units	1	BHH0102	08/05/24	08/05/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/24 12:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.7		%	1	BHH0050	08/02/24	08/02/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/24 12:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.959	0.0100	mmhos/cm	1	BHH0053	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **08/01/24 12:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.99		pH Units	1	BHH0052	08/01/24	08/02/24	EPA 9045D	

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Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

BKG06@3'
2408011-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/24 10:32**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHH0070	08/02/24	08/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/24 10:32**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.84	0.200	mg/kg dry	1	BHH0066	08/02/24	08/05/24	EPA 6020B	
Barium	52.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.82	0.400	"	"	"	"	"	"	
Lead	4.28	0.200	"	"	"	"	"	"	
Nickel	3.85	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	13.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/01/24 10:32**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0062	08/02/24	08/02/24	EPA 7196A	

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

Date Sampled: **08/01/24 10:32**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	72.6	0.0500	mg/L dry	1	BHH0051	08/01/24	08/02/24	EPA 6020B	
Magnesium	20.0	0.0500	"	"	"	"	"	"	
Sodium	136	0.0500	"	"	"	"	"	"	

Summit Scientific

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Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

BKG06@3'
2408011-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **08/01/24 10:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.64	0.00100	units	1	BHH0102	08/05/24	08/05/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/24 10:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.5		%	1	BHH0050	08/02/24	08/02/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/24 10:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.974	0.0100	mmhos/cm	1	BHH0053	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **08/01/24 10:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.19		pH Units	1	BHH0052	08/01/24	08/02/24	EPA 9045D	

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Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

BKG06@4'
2408011-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/01/24 10:33**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHH0070	08/02/24	08/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/01/24 10:33**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.59	0.200	mg/kg dry	1	BHH0066	08/02/24	08/05/24	EPA 6020B	
Barium	56.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.81	0.400	"	"	"	"	"	"	
Lead	4.89	0.200	"	"	"	"	"	"	
Nickel	3.57	0.400	"	"	"	"	"	"	
Silver	0.0229	0.0200	"	"	"	"	"	"	
Zinc	14.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/01/24 10:33**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0062	08/02/24	08/02/24	EPA 7196A	

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

Date Sampled: **08/01/24 10:33**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	237	0.0500	mg/L dry	1	BHH0051	08/01/24	08/02/24	EPA 6020B	
Magnesium	176	0.0500	"	"	"	"	"	"	
Sodium	84.7	0.0500	"	"	"	"	"	"	

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Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

BKG06@4'
2408011-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **08/01/24 10:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.02	0.00100	units	1	BHH0102	08/05/24	08/05/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/01/24 10:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.0		%	1	BHH0050	08/02/24	08/02/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/01/24 10:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.640	0.0100	mmhos/cm	1	BHH0053	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **08/01/24 10:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.31		pH Units	1	BHH0052	08/01/24	08/02/24	EPA 9045D	

Summit Scientific

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Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHH0038 - EPA 5030 Soil MS

Blank (BHH0038-BLK1)

Prepared & Analyzed: 08/01/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0444		"	0.0400		111	50-150			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0409		"	0.0400		102	50-150			

LCS (BHH0038-BS1)

Prepared & Analyzed: 08/01/24

Benzene	0.0768	0.0020	mg/kg	0.100		76.8	70-130			
Toluene	0.0981	0.0050	"	0.100		98.1	70-130			
Ethylbenzene	0.0967	0.0050	"	0.100		96.7	70-130			
m,p-Xylene	0.192	0.010	"	0.200		96.2	70-130			
o-Xylene	0.0948	0.0050	"	0.100		94.8	70-130			
1,2,4-Trimethylbenzene	0.0867	0.0050	"	0.100		86.7	70-130			
1,3,5-Trimethylbenzene	0.0880	0.0050	"	0.100		88.0	70-130			
Naphthalene	0.0757	0.0038	"	0.100		75.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0404		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0431		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0389		"	0.0400		97.2	50-150			

Matrix Spike (BHH0038-MS1)

Source: 2407402-01

Prepared & Analyzed: 08/01/24

Benzene	0.0755	0.0020	mg/kg	0.100	ND	75.5	70-130			
Toluene	0.0893	0.0050	"	0.100	ND	89.3	70-130			
Ethylbenzene	0.0804	0.0050	"	0.100	ND	80.4	70-130			
m,p-Xylene	0.162	0.010	"	0.200	ND	81.1	70-130			
o-Xylene	0.0802	0.0050	"	0.100	ND	80.2	70-130			
1,2,4-Trimethylbenzene	0.0715	0.0050	"	0.100	ND	71.5	70-130			
1,3,5-Trimethylbenzene	0.0720	0.0050	"	0.100	ND	72.0	70-130			
Naphthalene	0.0620	0.0038	"	0.100	ND	62.0	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0478		"	0.0400		119	50-150			
Surrogate: Toluene-d8	0.0432		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0408		"	0.0400		102	50-150			

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BHH0038 - EPA 5030 Soil MS

Matrix Spike Dup (BHH0038-MSD1)		Source: 2407402-01			Prepared & Analyzed: 08/01/24					
Benzene	0.0734	0.0020	mg/kg	0.100	ND	73.4	70-130	2.86	30	
Toluene	0.0903	0.0050	"	0.100	ND	90.3	70-130	1.07	30	
Ethylbenzene	0.0832	0.0050	"	0.100	ND	83.2	70-130	3.52	30	
m,p-Xylene	0.168	0.010	"	0.200	ND	84.1	70-130	3.63	30	
o-Xylene	0.0828	0.0050	"	0.100	ND	82.8	70-130	3.20	30	
1,2,4-Trimethylbenzene	0.0780	0.0050	"	0.100	ND	78.0	70-130	8.67	30	
1,3,5-Trimethylbenzene	0.0776	0.0050	"	0.100	ND	77.6	70-130	7.58	30	
Naphthalene	0.0659	0.0038	"	0.100	ND	65.9	70-130	6.09	30	QM-07
Surrogate: 1,2-Dichloroethane-d4		0.0492	"	0.0400		123	50-150			
Surrogate: Toluene-d8		0.0432	"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene		0.0419	"	0.0400		105	50-150			

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Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHH0037 - EPA 3550A

Blank (BHH0037-BLK1)

Prepared & Analyzed: 08/01/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.1		"	12.5		96.8	30-150			

LCS (BHH0037-BS1)

Prepared & Analyzed: 08/01/24

C10-C28 (DRO)	489	50	mg/kg	500		97.7	70-130			
Surrogate: o-Terphenyl	12.6		"	12.5		101	30-150			

Matrix Spike (BHH0037-MS1)

Source: 2407402-01

Prepared & Analyzed: 08/01/24

C10-C28 (DRO)	506	50	mg/kg	500	ND	101	70-130			
Surrogate: o-Terphenyl	10.4		"	12.5		83.5	30-150			

Matrix Spike Dup (BHH0037-MSD1)

Source: 2407402-01

Prepared & Analyzed: 08/01/24

C10-C28 (DRO)	464	50	mg/kg	500	ND	92.9	70-130	8.53	20	
Surrogate: o-Terphenyl	10.1		"	12.5		80.5	30-150			

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Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHH0055 - EPA 5030 Soil MS

Blank (BHH0055-BLK1)

Prepared & Analyzed: 08/02/24

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
Surrogate: 2-Methylnaphthalene-d10	0.0331		"	0.0333		99.4		40-150			
Surrogate: Fluoranthene-d10	0.0282		"	0.0333		84.5		40-150			

LCS (BHH0055-BS1)

Prepared & Analyzed: 08/02/24

Acenaphthene	0.0283	0.00500	mg/kg	0.0333		85.0		31-137			
Anthracene	0.0293	0.00500	"	0.0333		87.8		30-120			
Benzo (a) anthracene	0.0303	0.00500	"	0.0333		90.8		30-120			
Benzo (a) pyrene	0.0286	0.00500	"	0.0333		85.8		30-120			
Benzo (b) fluoranthene	0.0297	0.00500	"	0.0333		89.0		30-120			
Benzo (k) fluoranthene	0.0301	0.00500	"	0.0333		90.4		30-120			
Chrysene	0.0294	0.00500	"	0.0333		88.3		30-120			
Dibenz (a,h) anthracene	0.0258	0.00500	"	0.0333		77.4		30-120			
Fluoranthene	0.0286	0.00500	"	0.0333		85.7		30-120			
Fluorene	0.0292	0.00500	"	0.0333		87.5		30-120			
Indeno (1,2,3-cd) pyrene	0.0196	0.00500	"	0.0333		58.7		30-120			
Pyrene	0.0323	0.00500	"	0.0333		97.0		35-142			
1-Methylnaphthalene	0.0265	0.00500	"	0.0333		79.4		35-142			
2-Methylnaphthalene	0.0286	0.00500	"	0.0333		85.9		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0277		"	0.0333		83.2		40-150			
Surrogate: Fluoranthene-d10	0.0300		"	0.0333		89.9		40-150			

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Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHH0055 - EPA 5030 Soil MS

Matrix Spike (BHH0055-MS1)

Source: 2408011-01

Prepared & Analyzed: 08/02/24

Acenaphthene	0.0192	0.00500	mg/kg	0.0333	ND	57.7	31-137				
Anthracene	0.0195	0.00500	"	0.0333	ND	58.4	30-120				
Benzo (a) anthracene	0.0205	0.00500	"	0.0333	ND	61.5	30-120				
Benzo (a) pyrene	0.0182	0.00500	"	0.0333	ND	54.5	30-120				
Benzo (b) fluoranthene	0.0190	0.00500	"	0.0333	ND	57.0	30-120				
Benzo (k) fluoranthene	0.0203	0.00500	"	0.0333	ND	60.9	30-120				
Chrysene	0.0202	0.00500	"	0.0333	ND	60.7	30-120				
Dibenz (a,h) anthracene	0.0146	0.00500	"	0.0333	ND	43.9	30-120				
Fluoranthene	0.0186	0.00500	"	0.0333	ND	55.9	30-120				
Fluorene	0.0203	0.00500	"	0.0333	ND	60.8	30-120				
Indeno (1,2,3-cd) pyrene	0.0107	0.00500	"	0.0333	ND	32.2	30-120				
Pyrene	0.0220	0.00500	"	0.0333	ND	65.9	35-142				
1-Methylnaphthalene	0.0176	0.00500	"	0.0333	ND	52.9	15-130				
2-Methylnaphthalene	0.0181	0.00500	"	0.0333	ND	54.4	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0176		"	0.0333		52.7	40-150				
Surrogate: Fluoranthene-d10	0.0198		"	0.0333		59.3	40-150				

Matrix Spike Dup (BHH0055-MSD1)

Source: 2408011-01

Prepared & Analyzed: 08/02/24

Acenaphthene	0.0196	0.00500	mg/kg	0.0333	ND	58.7	31-137	1.60	30		
Anthracene	0.0190	0.00500	"	0.0333	ND	57.1	30-120	2.30	30		
Benzo (a) anthracene	0.0200	0.00500	"	0.0333	ND	60.0	30-120	2.53	30		
Benzo (a) pyrene	0.0185	0.00500	"	0.0333	ND	55.5	30-120	1.82	30		
Benzo (b) fluoranthene	0.0182	0.00500	"	0.0333	ND	54.5	30-120	4.43	30		
Benzo (k) fluoranthene	0.0193	0.00500	"	0.0333	ND	57.9	30-120	5.07	30		
Chrysene	0.0202	0.00500	"	0.0333	ND	60.5	30-120	0.383	30		
Dibenz (a,h) anthracene	0.0174	0.00500	"	0.0333	ND	52.0	30-120	16.9	30		
Fluoranthene	0.0188	0.00500	"	0.0333	ND	56.5	30-120	1.01	30		
Fluorene	0.0198	0.00500	"	0.0333	ND	59.3	30-120	2.58	30		
Indeno (1,2,3-cd) pyrene	0.0119	0.00500	"	0.0333	ND	35.8	30-120	10.6	30		
Pyrene	0.0215	0.00500	"	0.0333	ND	64.5	35-142	2.24	30		
1-Methylnaphthalene	0.0206	0.00500	"	0.0333	ND	61.9	15-130	15.5	50		
2-Methylnaphthalene	0.0205	0.00500	"	0.0333	ND	61.5	15-130	12.3	50		
Surrogate: 2-Methylnaphthalene-d10	0.0201		"	0.0333		60.4	40-150				
Surrogate: Fluoranthene-d10	0.0198		"	0.0333		59.4	40-150				

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

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 BHH0070 - EPA 3050B

Blank (BHH0070-BLK1)

Prepared: 08/02/24 Analyzed: 08/03/24

Boron ND 2.00 mg/L

LCS (BHH0070-BS1)

Prepared: 08/02/24 Analyzed: 08/03/24

Boron 4.82 2.00 mg/L 5.00 96.5 80-120

Duplicate (BHH0070-DUP1)

Source: 2408011-01

Prepared: 08/02/24 Analyzed: 08/03/24

Boron 0.338 2.00 mg/L 0.405 18.0 20

Matrix Spike (BHH0070-MS1)

Source: 2408011-01

Prepared: 08/02/24 Analyzed: 08/03/24

Boron 4.78 2.00 mg/L 5.01 0.405 87.2 75-125

Matrix Spike Dup (BHH0070-MSD1)

Source: 2408011-01

Prepared: 08/02/24 Analyzed: 08/03/24

Boron 4.86 2.00 mg/L 5.01 0.405 88.9 75-125 1.68 25

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

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 BHH0066 - EPA 3050B

Blank (BHH0066-BLK1)

Prepared: 08/02/24 Analyzed: 08/05/24

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 (BHH0066-BS1)

Prepared: 08/02/24 Analyzed: 08/05/24

Arsenic	40.2	0.200	mg/kg wet	39.4	102	80-120
Barium	40.8	0.400	"	39.4	104	80-120
Cadmium	2.03	0.200	"	1.97	103	80-120
Copper	40.2	0.400	"	39.4	102	80-120
Lead	20.0	0.200	"	19.7	102	80-120
Nickel	40.7	0.400	"	39.4	103	80-120
Silver	2.03	0.0200	"	1.97	103	80-120
Zinc	39.9	0.400	"	39.4	101	80-120
Selenium	4.04	0.260	"	3.94	103	80-120

Duplicate (BHH0066-DUP1)

Source: 2408011-01

Prepared: 08/02/24 Analyzed: 08/05/24

Arsenic	1.66	0.200	mg/kg dry	1.80	7.95	20
Barium	78.5	0.400	"	74.1	5.79	20
Cadmium	0.128	0.200	"	0.117	9.00	20
Copper	3.73	0.400	"	3.66	1.89	20
Lead	5.60	0.200	"	5.49	1.92	20
Nickel	4.62	0.400	"	4.42	4.38	20
Silver	0.0272	0.0200	"	0.0260	4.57	20
Zinc	16.6	0.400	"	16.0	3.52	20
Selenium	ND	0.260	"	ND		20

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

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 BHH0066 - EPA 3050B

Matrix Spike (BHH0066-MS1)		Source: 2408011-01			Prepared: 08/02/24 Analyzed: 08/05/24					
Arsenic	49.5	0.200	mg/kg dry	48.1	1.80	99.1	75-125			
Barium	114	0.400	"	48.1	74.1	83.5	75-125			
Cadmium	2.55	0.200	"	2.41	0.117	101	75-125			
Copper	35.4	0.400	"	48.1	3.66	66.0	75-125			QM-05
Lead	29.0	0.200	"	24.1	5.49	97.5	75-125			
Nickel	36.8	0.400	"	48.1	4.42	67.3	75-125			QM-05
Silver	2.43	0.0200	"	2.41	0.0260	99.9	75-125			
Zinc	48.8	0.400	"	48.1	16.0	68.1	75-125			QM-05
Selenium	4.14	0.260	"	4.81	ND	85.9	75-125			

Matrix Spike Dup (BHH0066-MSD1)		Source: 2408011-01			Prepared: 08/02/24 Analyzed: 08/05/24					
Arsenic	49.8	0.200	mg/kg dry	47.0	1.80	102	75-125	0.579	25	
Barium	118	0.400	"	47.0	74.1	93.8	75-125	3.37	25	
Cadmium	2.64	0.200	"	2.35	0.117	107	75-125	3.44	25	
Copper	35.8	0.400	"	47.0	3.66	68.4	75-125	1.03	25	QM-05
Lead	29.6	0.200	"	23.5	5.49	102	75-125	2.05	25	
Nickel	37.2	0.400	"	47.0	4.42	69.8	75-125	1.06	25	QM-05
Silver	2.49	0.0200	"	2.35	0.0260	105	75-125	2.20	25	
Zinc	48.5	0.400	"	47.0	16.0	69.1	75-125	0.591	25	QM-05
Selenium	4.09	0.260	"	4.70	ND	87.0	75-125	1.13	25	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

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 BHH0062 - 3060A Mod

Blank (BHH0062-BLK1)

Prepared & Analyzed: 08/02/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHH0062-BS1)

Prepared & Analyzed: 08/02/24

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

Duplicate (BHH0062-DUP1)

Source: 2408011-01

Prepared & Analyzed: 08/02/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHH0062-MS1)

Source: 2408011-01

Prepared & Analyzed: 08/02/24

Chromium, Hexavalent 25.9 0.30 mg/kg dry 30.1 ND 86.2 75-125

Matrix Spike Dup (BHH0062-MSD1)

Source: 2408011-01

Prepared & Analyzed: 08/02/24

Chromium, Hexavalent 27.0 0.30 mg/kg dry 30.1 ND 89.6 75-125 3.87 20

Summit Scientific

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Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

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 BHH0051 - General Preparation

Blank (BHH0051-BLK1)

Prepared: 08/01/24 Analyzed: 08/02/24

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

LCS (BHH0051-BS1)

Prepared: 08/01/24 Analyzed: 08/02/24

Calcium	5.59	0.0500	mg/L wet	5.00	112	70-130
Magnesium	5.43	0.0500	"	5.00	109	70-130
Sodium	5.38	0.0500	"	5.00	108	70-130

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Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

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

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

Batch BHH0050 - General Preparation

Duplicate (BHH0050-DUP1)

Source: 2408011-02

Prepared & Analyzed: 08/02/24

% Solids	87.7	%	87.1	0.710	20
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Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

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 BHH0053 - General Preparation

Blank (BHH0053-BLK1)

Prepared: 08/01/24 Analyzed: 08/02/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHH0053-BS1)

Prepared: 08/01/24 Analyzed: 08/02/24

Specific Conductance (EC) 0.158 0.0100 mmhos/cm 0.150 105 95-105

Duplicate (BHH0053-DUP1)

Source: 2407402-01

Prepared: 08/01/24 Analyzed: 08/02/24

Specific Conductance (EC) 1.24 0.0100 mmhos/cm 1.27 2.31 20

Summit Scientific

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



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL
Project Number: UWRWE-A3072-ABN 34724
Project Manager: Jacob Whritenour

Reported:
08/06/24 09:40

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

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

Batch BHH0052 - General Preparation

LCS (BHH0052-BS1)

Prepared: 08/01/24 Analyzed: 08/02/24

pH	9.08	pH Units	9.18	98.9	95-105
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Duplicate (BHH0052-DUP1)

Source: 2407402-01

Prepared: 08/01/24 Analyzed: 08/02/24

pH	7.99	pH Units	8.01	0.250	20
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Summit Scientific

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
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