

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

February 28, 2025

Daniel Simpson

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Noble - DR. Joe CC06-09 FL

Work Order #2501246

Enclosed are the results of analyses for samples received by Summit Scientific on 01/16/25 18:06. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Amanda Stilwell', written in a cursive style.

Amanda Stilwell For Paul Shrewsbury  
President



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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01-01@3'	2501246-01	Soil	01/16/25 09:39	01/16/25 18:06
FL01-02@2'	2501246-02	Soil	01/16/25 09:41	01/16/25 18:06
FL01-03@2'	2501246-03	Soil	01/16/25 09:44	01/16/25 18:06
FL01-04@2'	2501246-04	Soil	01/16/25 09:46	01/16/25 18:06
FL01-05@4'	2501246-05	Soil	01/16/25 09:50	01/16/25 18:06
FL01-06@4'	2501246-06	Soil	01/16/25 09:55	01/16/25 18:06
FL01-08@1'	2501246-08	Soil	01/16/25 10:03	01/16/25 18:06
FL01-09@3'	2501246-09	Soil	01/16/25 10:07	01/16/25 18:06
FL01 R-W@4'	2501246-10	Soil	01/16/25 10:10	01/16/25 18:06
SS01-FL01-09@2.5'	2501246-11	Soil	01/16/25 14:15	01/16/25 18:06
SS02-FL01-09@2.5'	2501246-12	Soil	01/16/25 14:17	01/16/25 18:06
SS03-FL01-09@2.5'	2501246-13	Soil	01/16/25 14:20	01/16/25 18:06
SS04-FL01-09@2.5'	2501246-14	Soil	01/16/25 14:23	01/16/25 18:06
FS01-FL01R-W@6'	2501246-15	Soil	01/16/25 14:54	01/16/25 18:06
BKG02@6'	2501246-16	Soil	01/16/25 12:04	01/16/25 18:06
BKG03@0-6"	2501246-17	Soil	01/16/25 12:12	01/16/25 18:06
BKG03@1'	2501246-18	Soil	01/16/25 12:14	01/16/25 18:06
BKG03@2'	2501246-19	Soil	01/16/25 12:16	01/16/25 18:06
BKG03@2.5'	2501246-20	Soil	01/16/25 12:18	01/16/25 18:06
BKG03@3'	2501246-21	Soil	01/16/25 12:21	01/16/25 18:06
BKG03@4'	2501246-22	Soil	01/16/25 12:25	01/16/25 18:06
BKG03@5'	2501246-23	Soil	01/16/25 12:28	01/16/25 18:06
BKG03@6'	2501246-24	Soil	01/16/25 12:31	01/16/25 18:06

### Case Narrative

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 - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

The COC received has been revised per client request on 02/28/25 .

This is a revision of the report originally sent on 02/13/25 at 12:14 MT.

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Summit Scientific

A handwritten signature in black ink, appearing to read 'Amanda Stubb'.

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Client: Tasman, Inc.		Send Data To:		Send Invoice To:	
Address: 6855 W. 119th Ave.		Project Manager: Daniel Simpson		Company: Noble	
City/State/Zip: Broomfield / CO/ 80020		E-Mail: tas-chevron-5@tasman-geo.com		Project Name/Location: Dr. Joe CCO6-09 FL	
Phone: 303-487-1228		RBUEUF27@chevron.com, jason.davidson@chevron.com		AFE#: UWRWE-14040-ABU	
Sampler Name: Wyatt Wadleigh		Project Name: Dr. Joe CCO6-09 FL		PO/Billing Codes:	
		Project Number:		Contact: Mike Morbya	

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	FL01-01 @ 3'	1/16/25	9:39	2			X			X			X	X	X	X	X	X		SAR, EC, pH by saturated paste
2	FL01-02 @ 2'		9:41																	
3	FL01-03 @ 2'		9:44																	
4	FL01-04 @ 2'		9:46																	
5	FL01-05 @ 4'		9:50																	
6	FL01-06 @ 4'		9:55																	
7	FL01-07 @ 2'		10:01																	
8	FL01-08 @ 1'		10:03																	Not submitted, field screened sample -JMB
9	FL01-09 @ 3'		10:07																	
10	FL01 R-W @ 4'		10:10																	
11	SS01-FL01-09 @ 2.5'		14:15																	
12	SS02-FL01-09 @ 2.5'		14:17																	
13	SS03-FL01-09 @ 2.5'		14:20																	
14	SS04-FL01-09 @ 2.5'		14:23																	
15	FS01-FL01R-W @ 4'		14:54																	

Relinquished by: <u>Wyatt Wadleigh</u>	Date/Time: <u>1/16/25</u>	Received by: <u>Tasman Lock</u>	Date/Time: <u>01/16/25</u>	TAT Business Days	Field DO	Notes:
				Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by: <u>Tasman Lock</u>	Date/Time: <u>1/16/25</u>	Received by: <u>[Signature]</u>	Date/Time: <u>1/16/25</u>	1 Day <input type="checkbox"/>	Field ORP	
				2 Days <input type="checkbox"/>	Field pH	
Relinquished by: <u>Tasman Lock</u>	Date/Time: <u>1/16/25</u>	Received by: <u>[Signature]</u>	Date/Time: <u>1/16/25</u>	3 Days <input type="checkbox"/>	Field Temp.	
				Standard <input type="checkbox"/>	Field Turb.	
Temperature Upon Receipt: <u>3.1</u>	Corrected Temperature <u>0</u>	IR gun #: <u>1</u>	HNO3 lot #: <u></u>			



<b>Client:</b> Tasman, Inc.		<b>Send Data To:</b>		<b>Send Invoice To:</b>	
<b>Address:</b> 6855 W. 119th Ave.		<b>Project Manager:</b> Daniel Simpson		<b>Company:</b> Noble	
<b>City/State/Zip:</b> Broomfield / CO/ 80020		<b>E-Mail:</b> tas-chevron-5@tasman-geo.com		<b>Project Name/Location:</b> Dr. Joe C06-09 FL	
<b>Phone:</b> 303-987-1228		<b>RBUEUF27@chevron.com, tasman.davis@chevron.com</b>		<b>AFE#:</b> WWR E - A4040-ABN	
<b>Sampler Name:</b> Wnt + Walicish		<b>Project Name:</b> Dr. Joe C06-09 FL		<b>PO/Billing Codes:</b>	
		<b>Project Number:</b>		<b>Contact:</b> AikenonToga	

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	BK602a6'	01/16/24	1204	11			X			X			X				X	X		SAR, EC, pH by saturated paste
2	BK603a0-6"		1212																	
3	BK603a1'		1214																	
4	BK603a2'		1216																	
5	BK603a2.5'		1218																	
6	BK603a3'		1221																	
7	BK603a4'		1225																	
8	BK603a5'		1228																	
9	BK603a6'		1231																	
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: <u>Wnt + Walicish</u>	Date/Time: <u>01/16/25</u>	Received by: <u>Tasman Lab</u>	Date/Time: <u>01/16/25</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <u>Tasman Lab</u>	Date/Time: <u>11025</u>	Received by: <u>Wnt + Walicish</u>	Date/Time: <u>11025</u>	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by: <u>Tasman Lab</u>	Date/Time: <u>18000</u>	Received by: <u>Wnt + Walicish</u>	Date/Time: <u>18000</u>	3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: <u>3.1</u>		Corrected Temperature <u>0</u>		IR gun #: <u>1</u>	HNO3 lot #: <u></u>	

S<sub>2</sub>

2/2

S2 Work Order# 250124p

## Sample Receipt Checklist

Client: TasmanClient Project ID: Dr Joe CCO-09 FLReceived Via: H.D./P/U/FedEx/UPS/USPS/Other ☐

Airbill #: \_\_\_\_\_

Matrix (Circle all that apply) Air/Soil/Water/Other ☐Temp (°C) 31Thermometer # 1Bottle ware (Circle all that apply) Glass/Jar/Voa/Amber/Poly/Other ☐

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	—			on 2/15
If custody seals are present, are they intact? <sup>(1)</sup>	—			
Are samples due within 48 hours?	—			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 <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD, Total Residual Chlorine (TRC)		—		
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>		—		
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>		—		No Times
Were all samples received intact? <sup>(1)</sup>	✓			
Was adequate sample volume provided? <sup>(1)</sup>	✓			
Were samples provided in appropriate bottle ware?	✓			
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>		✓		missing sample
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			✓	
Are any samples/bottles preserved (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.			✓	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Are there requested analysis that cannot be performed by S2? Note analysis in the comments column		✓		
Additional Comments (if any): <u>FL01-0702', 10:01</u>				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

Control Form #: SRC-001

AS  
Custodian Printed Name

1/16/25  
Date/Time



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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-01@3'**  
**2501246-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/16/25 09:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BIA0741	01/16/25	01/16/25	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	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.011</b>	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/16/25 09:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0457	114 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	99.9 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/16/25 09:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>C10-C28 (DRO)</b>	<b>95</b>	50	mg/kg	1	BIA0783	01/16/25	01/16/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/16/25 09:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	10.7	85.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-01@3'**  
**2501246-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/16/25 09:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Acenaphthene	0.209	0.00500	mg/kg	1	BIA0852	01/20/25	02/01/25	EPA 8270D SIM	E
Anthracene	0.462	0.00500	"	"	"	"	"	"	E
Benzo (a) anthracene	0.889	0.00500	"	"	"	"	"	"	E
Benzo (a) pyrene	0.391	0.00500	"	"	"	"	"	"	E
Benzo (b) fluoranthene	0.974	0.00500	"	"	"	"	"	"	E
Benzo (k) fluoranthene	0.248	0.00500	"	"	"	"	"	"	E
Chrysene	0.737	0.00500	"	"	"	"	"	"	E
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	1.52	0.00500	"	"	"	"	"	"	E
Fluorene	0.214	0.00500	"	"	"	"	"	"	E
Indeno (1,2,3-cd) pyrene	0.434	0.00500	"	"	"	"	"	"	E
Pyrene	1.18	0.00500	"	"	"	"	"	"	E
1-Methylnaphthalene	0.0117	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0188	0.00500	"	"	"	"	"	"	

Date Sampled: **01/16/25 09:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10	0.0151	45.4 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0154	46.2 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/16/25 09:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIA0826	01/17/25	01/20/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/16/25 09:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.04	0.200	mg/kg dry	1	BIA0805	01/17/25	01/19/25	EPA 6020B	

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6855 W. 119th Ave.  
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Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-01@3'**  
**2501246-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Barium	56.1	0.400	mg/kg dry	1	BIA0805	01/17/25	01/19/25	EPA 6020B
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.30	0.400	"	"	"	"	"	"
Lead	4.21	0.200	"	"	"	"	"	"
Nickel	3.39	0.400	"	"	"	"	"	"
Silver	0.0233	0.0200	"	"	"	"	"	"
Zinc	11.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/16/25 09:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0811	01/17/25	01/17/25	EPA 7196A	

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

Date Sampled: **01/16/25 09:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	86.3	0.0500	mg/L dry	1	BIA0788	01/16/25	01/18/25	EPA 6020B	
Magnesium	25.2	0.0500	"	"	"	"	"	"	
Sodium	149	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/16/25 09:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.63	0.00100	units	1	BIA1031	01/22/25	01/22/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **01/16/25 09:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Reported:**  
02/28/25 18:40

**FL01-01@3'**  
**2501246-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	95.0	%	1	BIA0809	01/17/25	01/17/25	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/16/25 09:39**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.28	0.0100		mmhos/cm	1	BIA0790	01/16/25	01/17/25	EPA 120.1	

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

Date Sampled: **01/16/25 09:39**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.88			pH Units	1	BIA0789	01/16/25	01/17/25	EPA 9045D	

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Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-02@2'**  
**2501246-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/16/25 09:41**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BIA0741	01/16/25	01/16/25	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: **01/16/25 09:41**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0400	99.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.6 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/16/25 09:41**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BIA0783	01/16/25	01/16/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/16/25 09:41**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.2	89.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-02@2'**  
**2501246-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/16/25 09:41**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BIA0852	01/20/25	01/26/25	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: **01/16/25 09:41**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0216	64.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0164	49.3 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/16/25 09:41**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BIA0826	01/17/25	01/20/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/16/25 09:41**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-02@2'**  
**2501246-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.21	0.200	mg/kg dry	1	BIA0806	01/17/25	01/19/25	EPA 6020B
Barium	29.2	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.95	0.400	"	"	"	"	"	"
Lead	2.80	0.200	"	"	"	"	"	"
Nickel	2.12	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	10.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/16/25 09:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0811	01/17/25	01/17/25	EPA 7196A	

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

Date Sampled: **01/16/25 09:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	508	0.0500	mg/L dry	1	BIA0788	01/16/25	01/18/25	EPA 6020B	
Magnesium	88.2	0.0500	"	"	"	"	"	"	
Sodium	112	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/16/25 09:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.21	0.00100	units	1	BIA1031	01/22/25	01/22/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-02@2'**  
**2501246-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **01/16/25 09:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.5		%	1	BIA0809	01/17/25	01/17/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/16/25 09:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.777	0.0100	mmhos/cm	1	BIA0790	01/16/25	01/17/25	EPA 120.1	

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

Date Sampled: **01/16/25 09:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.13		pH Units	1	BIA0789	01/16/25	01/17/25	EPA 9045D	

Summit Scientific

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-03@2'**  
**2501246-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/16/25 09:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BIA0741	01/16/25	01/16/25	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	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.092</b>	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/16/25 09:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0439	110 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0355	88.7 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/16/25 09:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>C10-C28 (DRO)</b>	<b>460</b>	50	mg/kg	1	BIA0783	01/16/25	01/16/25	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>230</b>	50	"	"	"	"	"	"	

Date Sampled: **01/16/25 09:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.3	82.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-03@2'**  
**2501246-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/16/25 09:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA0852	01/20/25	01/26/25	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: **01/16/25 09:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0248	74.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0237	71.0 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/16/25 09:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA0826	01/17/25	01/20/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/16/25 09:44**

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 - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-03@2'**  
**2501246-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.60	0.200	mg/kg dry	1	BIA0806	01/17/25	01/20/25	EPA 6020B
Barium	45.3	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.69	0.400	"	"	"	"	"	"
Lead	3.63	0.200	"	"	"	"	"	"
Nickel	2.61	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	12.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/16/25 09:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0811	01/17/25	01/17/25	EPA 7196A	

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

Date Sampled: **01/16/25 09:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	35.2	0.0500	mg/L dry	1	BIA0788	01/16/25	01/18/25	EPA 6020B	
Magnesium	13.2	0.0500	"	"	"	"	"	"	
Sodium	93.9	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/16/25 09:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.43	0.00100	units	1	BIA1031	01/22/25	01/22/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-03@2'**  
**2501246-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **01/16/25 09:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.5		%	1	BIA0809	01/17/25	01/17/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/16/25 09:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.735	0.0100	mmhos/cm	1	BIA0790	01/16/25	01/17/25	EPA 120.1	

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

Date Sampled: **01/16/25 09:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.88		pH Units	1	BIA0789	01/16/25	01/17/25	EPA 9045D	

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-04@2'**  
**2501246-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/16/25 09:46**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BIA0741	01/16/25	01/18/25	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: **01/16/25 09:46**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0374	93.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0389	97.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0370	92.6 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/16/25 09:46**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BIA0783	01/16/25	01/16/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/16/25 09:46**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.0	96.3 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-04@2'**  
**2501246-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/16/25 09:46**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BIA0852	01/20/25	01/26/25	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: **01/16/25 09:46**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0262	78.7 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0248	74.5 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/16/25 09:46**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BIA0826	01/17/25	01/20/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/16/25 09:46**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-04@2'**  
**2501246-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.26	0.200	mg/kg dry	1	BIA0806	01/17/25	01/20/25	EPA 6020B
Barium	25.2	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.70	0.400	"	"	"	"	"	"
Lead	2.58	0.200	"	"	"	"	"	"
Nickel	2.01	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	7.86	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/16/25 09:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0811	01/17/25	01/17/25	EPA 7196A	

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

Date Sampled: **01/16/25 09:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	60.3	0.0500	mg/L dry	1	BIA0788	01/16/25	01/18/25	EPA 6020B	
Magnesium	23.1	0.0500	"	"	"	"	"	"	
Sodium	74.5	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/16/25 09:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.07	0.00100	units	1	BIA1031	01/22/25	01/22/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-04@2'**  
**2501246-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **01/16/25 09:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.7		%	1	BIA0809	01/17/25	01/17/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/16/25 09:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.585	0.0100	mmhos/cm	1	BIA0790	01/16/25	01/17/25	EPA 120.1	

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

Date Sampled: **01/16/25 09:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.10		pH Units	1	BIA0789	01/16/25	01/17/25	EPA 9045D	

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-05@4'**  
**2501246-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/16/25 09:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BIA0741	01/16/25	01/16/25	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	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.10</b>	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/16/25 09:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0389	97.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0393	98.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	100 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/16/25 09:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>C10-C28 (DRO)</b>	<b>68</b>	50	mg/kg	1	BIA0783	01/16/25	01/16/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/16/25 09:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.9	87.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-05@4'**  
**2501246-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/16/25 09:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BIA0852	01/20/25	01/26/25	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: **01/16/25 09:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0242	72.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0222	66.6 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/16/25 09:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BIA0826	01/17/25	01/20/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/16/25 09:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-05@4'**  
**2501246-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.82	0.200	mg/kg dry	1	BIA0806	01/17/25	01/20/25	EPA 6020B
Barium	43.1	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.32	0.400	"	"	"	"	"	"
Lead	3.41	0.200	"	"	"	"	"	"
Nickel	2.51	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	11.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/16/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0811	01/17/25	01/17/25	EPA 7196A	

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

Date Sampled: **01/16/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	85.7	0.0500	mg/L dry	1	BIA0788	01/16/25	01/18/25	EPA 6020B	
Magnesium	18.7	0.0500	"	"	"	"	"	"	
Sodium	142	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/16/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.62	0.00100	units	1	BIA1031	01/22/25	01/22/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-05@4'**  
**2501246-05 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **01/16/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.6		%	1	BIA0809	01/17/25	01/17/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/16/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.22	0.0100	mmhos/cm	1	BIA0790	01/16/25	01/17/25	EPA 120.1	

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

Date Sampled: **01/16/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.01		pH Units	1	BIA0789	01/16/25	01/17/25	EPA 9045D	

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-06@4'**  
**2501246-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/16/25 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIA0741	01/16/25	01/16/25	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	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.017</b>	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/16/25 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0407	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0396	99.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	101 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/16/25 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIA0783	01/16/25	01/16/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/16/25 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.9	86.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-06@4'**  
**2501246-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/16/25 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA0852	01/20/25	01/26/25	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: **01/16/25 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0172	51.7 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0161	48.2 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/16/25 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA0826	01/17/25	01/20/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/16/25 09:55**

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 - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-06@4'**  
**2501246-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	2.84	0.200	mg/kg dry	1	BIA0806	01/17/25	01/20/25	EPA 6020B
Barium	70.2	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.01	0.400	"	"	"	"	"	"
Lead	4.52	0.200	"	"	"	"	"	"
Nickel	3.93	0.400	"	"	"	"	"	"
Silver	0.0301	0.0200	"	"	"	"	"	"
Zinc	13.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/16/25 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0811	01/17/25	01/17/25	EPA 7196A	

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

Date Sampled: **01/16/25 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	173	0.0500	mg/L dry	1	BIA0788	01/16/25	01/18/25	EPA 6020B	
Magnesium	47.8	0.0500	"	"	"	"	"	"	
Sodium	153	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/16/25 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.66	0.00100	units	1	BIA1031	01/22/25	01/22/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-06@4'**  
**2501246-06 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **01/16/25 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.9		%	1	BIA0809	01/17/25	01/17/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/16/25 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.71	0.0100	mmhos/cm	1	BIA0790	01/16/25	01/17/25	EPA 120.1	

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

Date Sampled: **01/16/25 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.72		pH Units	1	BIA0789	01/16/25	01/17/25	EPA 9045D	

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-08@1'**  
**2501246-08 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/16/25 10:03**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BIA0741	01/16/25	01/17/25	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	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.0091</b>	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/16/25 10:03**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0391	97.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0395	98.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0401	100 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/16/25 10:03**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>C10-C28 (DRO)</b>	<b>220</b>	50	mg/kg	1	BIA0783	01/16/25	01/16/25	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>89</b>	50	"	"	"	"	"	"	

Date Sampled: **01/16/25 10:03**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.0	96.3 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-08@1'**  
**2501246-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/16/25 10:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA0852	01/20/25	01/26/25	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: **01/16/25 10:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0200	60.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0176	52.7 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/16/25 10:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA0826	01/17/25	01/20/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/16/25 10:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-08@1'**  
**2501246-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.50	0.200	mg/kg dry	1	BIA0806	01/17/25	01/20/25	EPA 6020B
Barium	45.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.51	0.400	"	"	"	"	"	"
Lead	3.68	0.200	"	"	"	"	"	"
Nickel	2.77	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	12.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/16/25 10:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0811	01/17/25	01/17/25	EPA 7196A	

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

Date Sampled: **01/16/25 10:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	28.1	0.0500	mg/L dry	1	BIA0788	01/16/25	01/18/25	EPA 6020B	
Magnesium	10.7	0.0500	"	"	"	"	"	"	
Sodium	83.2	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/16/25 10:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.39	0.00100	units	1	BIA1031	01/22/25	01/22/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-08@1'**  
**2501246-08 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **01/16/25 10:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.1		%	1	BIA0809	01/17/25	01/17/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/16/25 10:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.604	0.0100	mmhos/cm	1	BIA0790	01/16/25	01/17/25	EPA 120.1	

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

Date Sampled: **01/16/25 10:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.71		pH Units	1	BIA0789	01/16/25	01/17/25	EPA 9045D	

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-09@3'**  
**2501246-09 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/16/25 10:07**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	1.9	0.20	mg/kg	100	BIA0741	01/16/25	01/18/25	EPA 8260B	
Toluene	51	0.50	"	"	"	"	"	"	E
Ethylbenzene	15	0.50	"	"	"	"	"	"	
Xylenes (total)	130	1.0	"	"	"	"	"	"	E
1,2,4-Trimethylbenzene	42	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	18	0.50	"	"	"	"	"	"	
Naphthalene	1.5	0.38	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	3600	50	"	"	"	"	"	"	

Date Sampled: **01/16/25 10:07**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0373	93.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0569	142 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/16/25 10:07**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	2900	50	mg/kg	1	BIA0783	01/16/25	01/17/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/16/25 10:07**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	18.4	147 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-09@3'**  
**2501246-09 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/16/25 10:07**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BIA0852	01/20/25	01/26/25	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: **01/16/25 10:07**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0208	62.4 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0223	66.9 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/16/25 10:07**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BIA0826	01/17/25	01/20/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/16/25 10:07**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-09@3'**  
**2501246-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	3.57	0.200	mg/kg dry	1	BIA0806	01/17/25	01/20/25	EPA 6020B
Barium	100	0.400	"	"	"	"	"	"
Cadmium	0.219	0.200	"	"	"	"	"	"
Copper	5.98	0.400	"	"	"	"	"	"
Lead	8.74	0.200	"	"	"	"	"	"
Nickel	5.26	0.400	"	"	"	"	"	"
Silver	0.0411	0.0200	"	"	"	"	"	"
Zinc	23.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/16/25 10:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0811	01/17/25	01/17/25	EPA 7196A	

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

Date Sampled: **01/16/25 10:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	81.7	0.0500	mg/L dry	1	BIA0788	01/16/25	01/18/25	EPA 6020B	
Magnesium	27.1	0.0500	"	"	"	"	"	"	
Sodium	149	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/16/25 10:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.65	0.00100	units	1	BIA1031	01/22/25	01/22/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **01/16/25 10:07**

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01-09@3'**  
**2501246-09 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	87.7	%	1	BIA0809	01/17/25	01/17/25	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/16/25 10:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.16	0.0100	mmhos/cm	1	BIA0790	01/16/25	01/17/25	EPA 120.1	

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

Date Sampled: **01/16/25 10:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.98		pH Units	1	BIA0789	01/16/25	01/17/25	EPA 9045D	

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01 R-W@4'**  
**2501246-10 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/16/25 10:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BIA0741	01/16/25	01/18/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	<b>0.018</b>	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	<b>0.012</b>	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	<b>0.0051</b>	0.0050	"	"	"	"	"	"	
Naphthalene	<b>0.10</b>	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	<b>0.51</b>	0.50	"	"	"	"	"	"	

Date Sampled: **01/16/25 10:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0380	95.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0392	98.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0395	98.7 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/16/25 10:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	<b>400</b>	50	mg/kg	1	BIA0783	01/16/25	01/17/25	EPA 8015M	
C28-C36 (ORO)	<b>170</b>	50	"	"	"	"	"	"	

Date Sampled: **01/16/25 10:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.9	87.3 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01 R-W@4'**  
**2501246-10 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/16/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA0852	01/20/25	01/26/25	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: **01/16/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0240	71.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0233	69.9 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/16/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA0826	01/17/25	01/20/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/16/25 10:10**

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 - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01 R-W@4'**  
**2501246-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	2.61	0.200	mg/kg dry	1	BIA0806	01/17/25	01/20/25	EPA 6020B
Barium	89.5	0.400	"	"	"	"	"	"
Cadmium	0.239	0.200	"	"	"	"	"	"
Copper	5.54	0.400	"	"	"	"	"	"
Lead	15.9	0.200	"	"	"	"	"	"
Nickel	5.06	0.400	"	"	"	"	"	"
Silver	0.0331	0.0200	"	"	"	"	"	"
Zinc	22.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/16/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0811	01/17/25	01/17/25	EPA 7196A	

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

Date Sampled: **01/16/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	40.8	0.0500	mg/L dry	1	BIA0788	01/16/25	01/18/25	EPA 6020B	
Magnesium	11.5	0.0500	"	"	"	"	"	"	
Sodium	64.5	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/16/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.30	0.00100	units	1	BIA1031	01/22/25	01/22/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **01/16/25 10:10**

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FL01 R-W@4'**  
**2501246-10 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	88.1	%	1	BIA0809	01/17/25	01/17/25	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/16/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.552	0.0100	mmhos/cm	1	BIA0790	01/16/25	01/17/25	EPA 120.1	

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

Date Sampled: **01/16/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.85		pH Units	1	BIA0789	01/16/25	01/17/25	EPA 9045D	

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**SS01-FL01-09@2.5'**  
**2501246-11 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/16/25 14:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BIA0741	01/16/25	01/18/25	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: **01/16/25 14:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0394	98.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0395	98.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	97.1 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/16/25 14:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BIA0783	01/16/25	01/17/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/16/25 14:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.0	80.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**SS01-FL01-09@2.5'**  
**2501246-11 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/16/25 14:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BIA0852	01/20/25	01/26/25	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: **01/16/25 14:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0274	82.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0297	89.0 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/16/25 14:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BIA0826	01/17/25	01/20/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/16/25 14:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**SS01-FL01-09@2.5'**  
**2501246-11 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	2.89	0.200	mg/kg dry	1	BIA0806	01/17/25	01/20/25	EPA 6020B
Barium	89.4	0.400	"	"	"	"	"	"
Cadmium	0.208	0.200	"	"	"	"	"	"
Copper	5.00	0.400	"	"	"	"	"	"
Lead	7.44	0.200	"	"	"	"	"	"
Nickel	4.69	0.400	"	"	"	"	"	"
Silver	0.0351	0.0200	"	"	"	"	"	"
Zinc	20.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/16/25 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0811	01/17/25	01/17/25	EPA 7196A	

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

Date Sampled: **01/16/25 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	45.3	0.0500	mg/L dry	1	BIA0788	01/16/25	01/18/25	EPA 6020B	
Magnesium	12.6	0.0500	"	"	"	"	"	"	
Sodium	115	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/16/25 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.90	0.00100	units	1	BIA1031	01/22/25	01/22/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **01/16/25 14:15**

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 - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**SS01-FL01-09@2.5'**  
**2501246-11 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	90.1	%	1	BIA0809	01/17/25	01/17/25	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/16/25 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.800	0.0100	mmhos/cm	1	BIA0790	01/16/25	01/17/25	EPA 120.1	

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

Date Sampled: **01/16/25 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.06		pH Units	1	BIA0789	01/16/25	01/17/25	EPA 9045D	

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**SS02-FL01-09@2.5'**  
**2501246-12 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/16/25 14:17**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BIA0741	01/16/25	01/18/25	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: **01/16/25 14:17**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0386	96.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0392	98.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0373	93.2 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/16/25 14:17**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BIA0783	01/16/25	01/17/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/16/25 14:17**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.3	82.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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6855 W. 119th Ave.  
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Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**SS02-FL01-09@2.5'**  
**2501246-12 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/16/25 14:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA0852	01/20/25	01/26/25	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: **01/16/25 14:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0200	59.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0199	59.6 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/16/25 14:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA0826	01/17/25	01/20/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/16/25 14:17**

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 - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**SS02-FL01-09@2.5'**  
**2501246-12 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	2.11	0.200	mg/kg dry	1	BIA0806	01/17/25	01/20/25	EPA 6020B
Barium	74.7	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.98	0.400	"	"	"	"	"	"
Lead	5.69	0.200	"	"	"	"	"	"
Nickel	3.94	0.400	"	"	"	"	"	"
Silver	0.0255	0.0200	"	"	"	"	"	"
Zinc	15.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/16/25 14:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0811	01/17/25	01/17/25	EPA 7196A	

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

Date Sampled: **01/16/25 14:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	50.8	0.0500	mg/L dry	1	BIA0788	01/16/25	01/18/25	EPA 6020B	
Magnesium	12.8	0.0500	"	"	"	"	"	"	
Sodium	176	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/16/25 14:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.72	0.00100	units	1	BIA1031	01/22/25	01/22/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**SS02-FL01-09@2.5'**  
**2501246-12 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **01/16/25 14:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.8		%	1	BIA0809	01/17/25	01/17/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/16/25 14:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.17	0.0100	mmhos/cm	1	BIA0790	01/16/25	01/17/25	EPA 120.1	

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

Date Sampled: **01/16/25 14:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.05		pH Units	1	BIA0789	01/16/25	01/17/25	EPA 9045D	

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**SS03-FL01-09@2.5'**  
**2501246-13 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/16/25 14:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BIA0741	01/16/25	01/18/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.042</b>	0.0050	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>0.013</b>	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.60</b>	0.50	"	"	"	"	"	"	

Date Sampled: **01/16/25 14:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0406	102 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0398	99.4 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0390	97.5 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/16/25 14:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BIA0783	01/16/25	01/17/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/16/25 14:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: o-Terphenyl</i>	10.2	82.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**SS03-FL01-09@2.5'**  
**2501246-13 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/16/25 14:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BIA0852	01/20/25	01/26/25	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: **01/16/25 14:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0263	78.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0290	87.1 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/16/25 14:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BIA0826	01/17/25	01/20/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/16/25 14:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**SS03-FL01-09@2.5'**  
**2501246-13 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	3.28	0.200	mg/kg dry	1	BIA0806	01/17/25	01/20/25	EPA 6020B
Barium	108	0.400	"	"	"	"	"	"
Cadmium	0.258	0.200	"	"	"	"	"	"
Copper	6.51	0.400	"	"	"	"	"	"
Lead	10.6	0.200	"	"	"	"	"	"
Nickel	5.91	0.400	"	"	"	"	"	"
Silver	0.0434	0.0200	"	"	"	"	"	"
Zinc	25.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/16/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0811	01/17/25	01/17/25	EPA 7196A	

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

Date Sampled: **01/16/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	38.1	0.0500	mg/L dry	1	BIA0788	01/16/25	01/18/25	EPA 6020B	
Magnesium	11.9	0.0500	"	"	"	"	"	"	
Sodium	118	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/16/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.28	0.00100	units	1	BIA1031	01/22/25	01/22/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **01/16/25 14:20**

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 - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**SS03-FL01-09@2.5'**  
**2501246-13 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	74.6	%	1	BIA0810	01/17/25	01/17/25	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/16/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.647	0.0100	mmhos/cm	1	BIA0790	01/16/25	01/17/25	EPA 120.1	

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

Date Sampled: **01/16/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.97		pH Units	1	BIA0789	01/16/25	01/17/25	EPA 9045D	

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**SS04-FL01-09@2.5'**  
**2501246-14 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/16/25 14:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BIA0741	01/16/25	01/18/25	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: **01/16/25 14:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0380	94.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0392	98.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0379	94.8 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/16/25 14:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BIA0783	01/16/25	01/17/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/16/25 14:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.9	103 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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02/28/25 18:40

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**2501246-14 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/16/25 14:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA0852	01/20/25	01/26/25	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: **01/16/25 14:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0300	89.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0313	93.8 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/16/25 14:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA0826	01/17/25	01/20/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/16/25 14:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**SS04-FL01-09@2.5'**  
**2501246-14 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.94	0.200	mg/kg dry	1	BIA0806	01/17/25	01/20/25	EPA 6020B
Barium	75.8	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.45	0.400	"	"	"	"	"	"
Lead	5.59	0.200	"	"	"	"	"	"
Nickel	3.24	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	14.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/16/25 14:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0811	01/17/25	01/17/25	EPA 7196A	

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

Date Sampled: **01/16/25 14:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	41.3	0.0500	mg/L dry	1	BIA0788	01/16/25	01/18/25	EPA 6020B	
Magnesium	8.87	0.0500	"	"	"	"	"	"	
Sodium	71.5	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/16/25 14:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.63	0.00100	units	1	BIA1031	01/22/25	01/22/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Project Manager: Daniel Simpson

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02/28/25 18:40

**SS04-FL01-09@2.5'**  
**2501246-14 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **01/16/25 14:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.5		%	1	BIA0810	01/17/25	01/17/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/16/25 14:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.603	0.0100	mmhos/cm	1	BIA0790	01/16/25	01/17/25	EPA 120.1	

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

Date Sampled: **01/16/25 14:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.26		pH Units	1	BIA0789	01/16/25	01/17/25	EPA 9045D	

Summit Scientific

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Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**FS01-FL01R-W@6'**  
**2501246-15 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **01/16/25 14:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BIA0741	01/16/25	01/18/25	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: **01/16/25 14:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0367	91.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0390	97.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0361	90.2 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/16/25 14:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BIA0783	01/16/25	01/17/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/16/25 14:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.8	102 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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**FS01-FL01R-W@6'**  
**2501246-15 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/16/25 14:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BIA0852	01/20/25	01/27/25	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: **01/16/25 14:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0235	70.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0240	72.0 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/16/25 14:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BIA0826	01/17/25	01/20/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/16/25 14:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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02/28/25 18:40

**FS01-FL01R-W@6'**  
**2501246-15 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	2.33	0.200	mg/kg dry	1	BIA0806	01/17/25	01/20/25	EPA 6020B
Barium	69.5	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.80	0.400	"	"	"	"	"	"
Lead	5.74	0.200	"	"	"	"	"	"
Nickel	4.02	0.400	"	"	"	"	"	"
Silver	0.0235	0.0200	"	"	"	"	"	"
Zinc	16.5	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/16/25 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0811	01/17/25	01/17/25	EPA 7196A	

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

Date Sampled: **01/16/25 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	28.2	0.0500	mg/L dry	1	BIA0788	01/16/25	01/18/25	EPA 6020B	
Magnesium	7.73	0.0500	"	"	"	"	"	"	
Sodium	26.5	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/16/25 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.14	0.00100	units	1	BIA1031	01/22/25	01/22/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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02/28/25 18:40

**FS01-FL01R-W@6'**  
**2501246-15 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **01/16/25 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.6		%	1	BIA0810	01/17/25	01/17/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/16/25 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.289	0.0100	mmhos/cm	1	BIA0790	01/16/25	01/17/25	EPA 120.1	

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

Date Sampled: **01/16/25 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.23		pH Units	1	BIA0789	01/16/25	01/17/25	EPA 9045D	

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**Reported:**  
02/28/25 18:40

**BKG02@6'**  
**2501246-16 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/16/25 12:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BIA0826	01/17/25	01/20/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/16/25 12:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.65	0.200	mg/kg dry	1	BIA0806	01/17/25	01/20/25	EPA 6020B	
Barium	37.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.83	0.400	"	"	"	"	"	"	
Lead	3.26	0.200	"	"	"	"	"	"	
Nickel	2.32	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.21	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/16/25 12:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0814	01/17/25	01/17/25	EPA 7196A	

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

Date Sampled: **01/16/25 12:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	20.3	0.0500	mg/L dry	1	BIB0297	02/06/25	02/13/25	EPA 6020B	
Magnesium	5.00	0.0500	"	"	"	"	"	"	
Sodium	55.3	0.0500	"	"	"	"	"	"	

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**Reported:**  
02/28/25 18:40

**BKG02@6'**  
**2501246-16 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/16/25 12:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.85	0.00100	units	1	BIB0707	02/13/25	02/13/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **01/16/25 12:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.8		%	1	BIA0810	01/17/25	01/17/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/16/25 12:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.384	0.0100	mmhos/cm	1	BIB0299	02/06/25	02/07/25	EPA 120.1	

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

Date Sampled: **01/16/25 12:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.86		pH Units	1	BIB0303	02/06/25	02/07/25	EPA 9045D	

Summit Scientific

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Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**BKG03@0-6"**  
**2501246-17 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/16/25 12:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BIA0826	01/17/25	01/20/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/16/25 12:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.43	0.200	mg/kg dry	1	BIA0806	01/17/25	01/20/25	EPA 6020B	
Barium	106	0.400	"	"	"	"	"	"	
Cadmium	0.312	0.200	"	"	"	"	"	"	
Copper	6.50	0.400	"	"	"	"	"	"	
Lead	10.8	0.200	"	"	"	"	"	"	
Nickel	5.52	0.400	"	"	"	"	"	"	
Silver	0.0487	0.0200	"	"	"	"	"	"	
Zinc	28.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/16/25 12:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0814	01/17/25	01/17/25	EPA 7196A	

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

Date Sampled: **01/16/25 12:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	53.8	0.0500	mg/L dry	1	BIB0297	02/06/25	02/13/25	EPA 6020B	
Magnesium	10.6	0.0500	"	"	"	"	"	"	
Sodium	103	0.0500	"	"	"	"	"	"	

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**BKG03@0-6"**  
**2501246-17 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/16/25 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.36	0.00100	units	1	BIB0707	02/13/25	02/13/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **01/16/25 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.1		%	1	BIA0810	01/17/25	01/17/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/16/25 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.639	0.0100	mmhos/cm	1	BIB0299	02/06/25	02/07/25	EPA 120.1	

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

Date Sampled: **01/16/25 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.83		pH Units	1	BIB0303	02/06/25	02/07/25	EPA 9045D	

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**BKG03@1'**  
**2501246-18 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/16/25 12:14**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BIA0826	01/17/25	01/20/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/16/25 12:14**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.46	0.200	mg/kg dry	1	BIA0806	01/17/25	01/20/25	EPA 6020B	
Barium	108	0.400	"	"	"	"	"	"	
Cadmium	0.355	0.200	"	"	"	"	"	"	
Copper	7.06	0.400	"	"	"	"	"	"	
Lead	12.8	0.200	"	"	"	"	"	"	
Nickel	5.68	0.400	"	"	"	"	"	"	
Silver	0.0539	0.0200	"	"	"	"	"	"	
Zinc	32.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/16/25 12:14**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0814	01/17/25	01/17/25	EPA 7196A	

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

Date Sampled: **01/16/25 12:14**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	49.4	0.0500	mg/L dry	1	BIB0297	02/06/25	02/13/25	EPA 6020B	
Magnesium	15.4	0.0500	"	"	"	"	"	"	
Sodium	110	0.0500	"	"	"	"	"	"	

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**BKG03@1'**  
**2501246-18 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/16/25 12:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.50	0.00100	units	1	BIB0707	02/13/25	02/13/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **01/16/25 12:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.9		%	1	BIA0810	01/17/25	01/17/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/16/25 12:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.772	0.0100	mmhos/cm	1	BIB0299	02/06/25	02/07/25	EPA 120.1	

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

Date Sampled: **01/16/25 12:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.74		pH Units	1	BIB0303	02/06/25	02/07/25	EPA 9045D	

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**BKG03@2'**  
**2501246-19 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/16/25 12:16**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIA0826	01/17/25	01/20/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/16/25 12:16**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.36	0.200		mg/kg dry	1	BIA0806	01/17/25	01/20/25	EPA 6020B	
Barium	99.8	0.400		"	"	"	"	"	"	
Cadmium	0.331	0.200		"	"	"	"	"	"	
Copper	6.67	0.400		"	"	"	"	"	"	
Lead	12.0	0.200		"	"	"	"	"	"	
Nickel	5.43	0.400		"	"	"	"	"	"	
Silver	0.0503	0.0200		"	"	"	"	"	"	
Zinc	30.3	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/16/25 12:16**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIA0814	01/17/25	01/17/25	EPA 7196A	

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

Date Sampled: **01/16/25 12:16**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	47.2	0.0500		mg/L dry	1	BIB0297	02/06/25	02/13/25	EPA 6020B	
Magnesium	14.8	0.0500		"	"	"	"	"	"	
Sodium	111	0.0500		"	"	"	"	"	"	

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**BKG03@2'**  
**2501246-19 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/16/25 12:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.61	0.00100	units	1	BIB0707	02/13/25	02/13/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **01/16/25 12:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.5		%	1	BIA0810	01/17/25	01/17/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/16/25 12:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.732	0.0100	mmhos/cm	1	BIB0299	02/06/25	02/07/25	EPA 120.1	

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

Date Sampled: **01/16/25 12:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.60		pH Units	1	BIB0303	02/06/25	02/07/25	EPA 9045D	

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**BKG03@2.5'**  
**2501246-20 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/16/25 12:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIA0826	01/17/25	01/20/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/16/25 12:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.54	0.200		mg/kg dry	1	BIA0806	01/17/25	01/20/25	EPA 6020B	
Barium	114	0.400		"	"	"	"	"	"	
Cadmium	0.369	0.200		"	"	"	"	"	"	
Copper	6.93	0.400		"	"	"	"	"	"	
Lead	12.8	0.200		"	"	"	"	"	"	
Nickel	5.79	0.400		"	"	"	"	"	"	
Silver	0.0594	0.0200		"	"	"	"	"	"	
Zinc	29.0	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/16/25 12:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIA0814	01/17/25	01/17/25	EPA 7196A	

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

Date Sampled: **01/16/25 12:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	51.4	0.0500		mg/L dry	1	BIB0297	02/06/25	02/13/25	EPA 6020B	
Magnesium	15.2	0.0500		"	"	"	"	"	"	
Sodium	97.6	0.0500		"	"	"	"	"	"	

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**BKG03@2.5'**  
**2501246-20 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/16/25 12:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.07	0.00100	units	1	BIB0707	02/13/25	02/13/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **01/16/25 12:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.2		%	1	BIA0810	01/17/25	01/17/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/16/25 12:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.747	0.0100	mmhos/cm	1	BIB0299	02/06/25	02/07/25	EPA 120.1	

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

Date Sampled: **01/16/25 12:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.60		pH Units	1	BIB0303	02/06/25	02/07/25	EPA 9045D	

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**BKG03@3'**  
**2501246-21 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/16/25 12:21**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BIA0826	01/17/25	01/20/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/16/25 12:21**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.18	0.200	mg/kg dry	1	BIA0806	01/17/25	01/20/25	EPA 6020B	
Barium	101	0.400	"	"	"	"	"	"	
Cadmium	0.348	0.200	"	"	"	"	"	"	
Copper	6.53	0.400	"	"	"	"	"	"	
Lead	13.4	0.200	"	"	"	"	"	"	
Nickel	5.47	0.400	"	"	"	"	"	"	
Silver	0.0530	0.0200	"	"	"	"	"	"	
Zinc	28.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/16/25 12:21**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0814	01/17/25	01/17/25	EPA 7196A	

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

Date Sampled: **01/16/25 12:21**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	34.6	0.0500	mg/L dry	1	BIB0297	02/06/25	02/13/25	EPA 6020B	
Magnesium	10.2	0.0500	"	"	"	"	"	"	
Sodium	96.3	0.0500	"	"	"	"	"	"	

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**BKG03@3'**  
**2501246-21 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/16/25 12:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.70	0.00100	units	1	BIB0707	02/13/25	02/13/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **01/16/25 12:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.8		%	1	BIA0810	01/17/25	01/17/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/16/25 12:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.620	0.0100	mmhos/cm	1	BIB0299	02/06/25	02/07/25	EPA 120.1	

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

Date Sampled: **01/16/25 12:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.78		pH Units	1	BIB0303	02/06/25	02/07/25	EPA 9045D	

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**BKG03@4'**  
**2501246-22 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/16/25 12:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIA0826	01/17/25	01/20/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/16/25 12:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.95	0.200		mg/kg dry	1	BIA0807	01/17/25	01/20/25	EPA 6020B	
Barium	87.0	0.400		"	"	"	"	"	"	
Cadmium	0.258	0.200		"	"	"	"	"	"	
Copper	5.73	0.400		"	"	"	"	"	"	
Lead	9.41	0.200		"	"	"	"	"	"	
Nickel	4.93	0.400		"	"	"	"	"	"	
Silver	0.0458	0.0200		"	"	"	"	"	"	
Zinc	24.0	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/16/25 12:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIA0814	01/17/25	01/17/25	EPA 7196A	

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

Date Sampled: **01/16/25 12:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	53.1	0.0500		mg/L dry	1	BIB0297	02/06/25	02/13/25	EPA 6020B	
Magnesium	14.3	0.0500		"	"	"	"	"	"	
Sodium	103	0.0500		"	"	"	"	"	"	

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**BKG03@4'**  
**2501246-22 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/16/25 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.24	0.00100	units	1	BIB0707	02/13/25	02/13/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **01/16/25 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.8		%	1	BIA0810	01/17/25	01/17/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/16/25 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.764	0.0100	mmhos/cm	1	BIB0299	02/06/25	02/07/25	EPA 120.1	

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

Date Sampled: **01/16/25 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.95		pH Units	1	BIB0303	02/06/25	02/07/25	EPA 9045D	

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**BKG03@5'**  
**2501246-23 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/16/25 12:28**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIA0828	01/17/25	01/20/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/16/25 12:28**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.35	0.200		mg/kg dry	1	BIA0807	01/17/25	01/20/25	EPA 6020B	
Barium	79.9	0.400		"	"	"	"	"	"	
Cadmium	0.208	0.200		"	"	"	"	"	"	
Copper	4.92	0.400		"	"	"	"	"	"	
Lead	7.30	0.200		"	"	"	"	"	"	
Nickel	4.46	0.400		"	"	"	"	"	"	
Silver	0.0315	0.0200		"	"	"	"	"	"	
Zinc	19.9	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/16/25 12:28**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIA0814	01/17/25	01/17/25	EPA 7196A	

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

Date Sampled: **01/16/25 12:28**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	48.3	0.0500		mg/L dry	1	BIB0297	02/06/25	02/13/25	EPA 6020B	
Magnesium	13.6	0.0500		"	"	"	"	"	"	
Sodium	76.8	0.0500		"	"	"	"	"	"	

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**BKG03@5'**  
**2501246-23 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/16/25 12:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.51	0.00100	units	1	BIB0707	02/13/25	02/13/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **01/16/25 12:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.3		%	1	BIA0810	01/17/25	01/17/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/16/25 12:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.678	0.0100	mmhos/cm	1	BIB0299	02/06/25	02/07/25	EPA 120.1	

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

Date Sampled: **01/16/25 12:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.81		pH Units	1	BIB0303	02/06/25	02/07/25	EPA 9045D	

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**BKG03@6'**  
**2501246-24 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **01/16/25 12:31**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BIA0828	01/17/25	01/20/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/16/25 12:31**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.45	0.200	mg/kg dry	1	BIA0807	01/17/25	01/20/25	EPA 6020B	
Barium	45.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.65	0.400	"	"	"	"	"	"	
Lead	3.99	0.200	"	"	"	"	"	"	
Nickel	2.78	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/16/25 12:31**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0814	01/17/25	01/17/25	EPA 7196A	

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

Date Sampled: **01/16/25 12:31**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	34.0	0.0500	mg/L dry	1	BIB0297	02/06/25	02/13/25	EPA 6020B	
Magnesium	10.5	0.0500	"	"	"	"	"	"	
Sodium	90.7	0.0500	"	"	"	"	"	"	

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**BKG03@6'**  
**2501246-24 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/16/25 12:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.49	0.00100	units	1	BIB0707	02/13/25	02/13/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **01/16/25 12:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.4		%	1	BIA0810	01/17/25	01/17/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/16/25 12:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.662	0.0100	mmhos/cm	1	BIB0299	02/06/25	02/07/25	EPA 120.1	

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

Date Sampled: **01/16/25 12:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.96		pH Units	1	BIB0303	02/06/25	02/07/25	EPA 9045D	

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

## 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 BIA0741 - EPA 5030 Soil MS

##### Blank (BIA0741-BLK1)

Prepared: 01/16/25 Analyzed: 01/18/25

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	0.0306		"	0.0400		76.5	50-150			
Surrogate: Toluene-d8	0.0392		"	0.0400		98.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0400		94.0	50-150			

##### LCS (BIA0741-BS1)

Prepared: 01/16/25 Analyzed: 01/18/25

Benzene	0.110	0.0020	mg/kg	0.100		110	70-130			
Toluene	0.113	0.0050	"	0.100		113	70-130			
Ethylbenzene	0.122	0.0050	"	0.100		122	70-130			
m,p-Xylene	0.234	0.010	"	0.200		117	70-130			
o-Xylene	0.117	0.0050	"	0.100		117	70-130			
1,2,4-Trimethylbenzene	0.112	0.0050	"	0.100		112	70-130			
1,3,5-Trimethylbenzene	0.115	0.0050	"	0.100		115	70-130			
Naphthalene	0.0783	0.0038	"	0.100		78.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0280		"	0.0400		69.9	50-150			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.1	50-150			

##### Matrix Spike (BIA0741-MS1)

Source: 2501246-01

Prepared: 01/16/25 Analyzed: 01/19/25

Benzene	0.0847	0.0020	mg/kg	0.100	ND	84.7	70-130			
Toluene	0.0978	0.0050	"	0.100	ND	97.8	70-130			
Ethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130			
m,p-Xylene	0.197	0.010	"	0.200	ND	98.4	70-130			
o-Xylene	0.0984	0.0050	"	0.100	ND	98.4	70-130			
1,2,4-Trimethylbenzene	0.0873	0.0050	"	0.100	ND	87.3	70-130			
1,3,5-Trimethylbenzene	0.0899	0.0050	"	0.100	ND	89.9	70-130			
Naphthalene	0.0883	0.0038	"	0.100	0.0114	76.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0267		"	0.0400		66.7	50-150			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0400		95.8	50-150			

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**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 BIA0741 - EPA 5030 Soil MS**

Matrix Spike Dup (BIA0741-MSD1)		Source: 2501246-01			Prepared: 01/16/25 Analyzed: 01/19/25					
Benzene	0.0884	0.0020	mg/kg	0.100	ND	88.4	70-130	4.33	30	
Toluene	0.0934	0.0050	"	0.100	ND	93.4	70-130	4.64	30	
Ethylbenzene	0.0932	0.0050	"	0.100	ND	93.2	70-130	7.82	30	
m,p-Xylene	0.181	0.010	"	0.200	ND	90.4	70-130	8.44	30	
o-Xylene	0.0901	0.0050	"	0.100	ND	90.1	70-130	8.78	30	
1,2,4-Trimethylbenzene	0.0765	0.0050	"	0.100	ND	76.5	70-130	13.2	30	
1,3,5-Trimethylbenzene	0.0785	0.0050	"	0.100	ND	78.5	70-130	13.6	30	
Naphthalene	0.0901	0.0038	"	0.100	0.0114	78.7	70-130	2.09	30	
Surrogate: 1,2-Dichloroethane-d4		0.0266	"	0.0400		66.4	50-150			
Surrogate: Toluene-d8		0.0390	"	0.0400		97.4	50-150			
Surrogate: 4-Bromofluorobenzene		0.0387	"	0.0400		96.8	50-150			

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**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 BIA0783 - EPA 3550A**

**Blank (BIA0783-BLK1)**

Prepared: 01/16/25 Analyzed: 01/17/25

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.8		"	12.5		103	30-150			

**LCS (BIA0783-BS1)**

Prepared: 01/16/25 Analyzed: 01/17/25

C10-C28 (DRO)	452	50	mg/kg	500		90.4	70-130			
Surrogate: o-Terphenyl	12.2		"	12.5		97.7	30-150			

**Matrix Spike (BIA0783-MS1)**

Source: 2501246-01

Prepared: 01/16/25 Analyzed: 01/17/25

C10-C28 (DRO)	513	50	mg/kg	500	95.3	83.6	70-130			
Surrogate: o-Terphenyl	12.3		"	12.5		98.8	30-150			

**Matrix Spike Dup (BIA0783-MSD1)**

Source: 2501246-01

Prepared: 01/16/25 Analyzed: 01/17/25

C10-C28 (DRO)	538	50	mg/kg	500	95.3	88.5	70-130	4.70	20	
Surrogate: o-Terphenyl	12.6		"	12.5		101	30-150			

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

### 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 BIA0852 - EPA 5030 Soil MS

##### Blank (BIA0852-BLK1)

Prepared: 01/20/25 Analyzed: 02/05/25

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	0.0136		"	0.0333		40.8		40-140			
Surrogate: Fluoranthene-d10	0.0152		"	0.0333		45.7		40-140			

##### LCS (BIA0852-BS1)

Prepared: 01/20/25 Analyzed: 02/01/25

Acenaphthene	0.0154	0.00500	mg/kg	0.0333		46.1		40-140			
Anthracene	0.0158	0.00500	"	0.0333		47.5		40-140			
Benzo (a) anthracene	0.0185	0.00500	"	0.0333		55.5		40-140			
Benzo (a) pyrene	0.0187	0.00500	"	0.0333		56.0		40-140			
Benzo (b) fluoranthene	0.0147	0.00500	"	0.0333		44.2		40-140			
Benzo (k) fluoranthene	0.0141	0.00500	"	0.0333		42.3		40-140			
Chrysene	0.0156	0.00500	"	0.0333		46.8		40-140			
Dibenz (a,h) anthracene	0.0484	0.00500	"	0.0333		145		40-140			QLCS-01
Fluoranthene	0.0167	0.00500	"	0.0333		50.2		40-140			
Fluorene	0.0173	0.00500	"	0.0333		51.8		40-140			
Indeno (1,2,3-cd) pyrene	0.0395	0.00500	"	0.0333		118		40-140			
Pyrene	0.0154	0.00500	"	0.0333		46.3		40-140			
1-Methylnaphthalene	0.0162	0.00500	"	0.0333		48.6		40-140			
2-Methylnaphthalene	0.0167	0.00500	"	0.0333		50.0		40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0165		"	0.0333		49.6		40-140			
Surrogate: Fluoranthene-d10	0.0161		"	0.0333		48.3		40-140			

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

### 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 BIA0852 - EPA 5030 Soil MS

Matrix Spike (BIA0852-MS1)		Source: 2501202-01			Prepared: 01/20/25 Analyzed: 01/26/25						
Acenaphthene	0.0206	0.00500	mg/kg	0.0333	ND	61.9	40-140				
Anthracene	0.0244	0.00500	"	0.0333	ND	73.3	40-140				
Benzo (a) anthracene	0.0240	0.00500	"	0.0333	ND	72.0	40-140				
Benzo (a) pyrene	0.0220	0.00500	"	0.0333	ND	66.1	40-140				
Benzo (b) fluoranthene	0.0214	0.00500	"	0.0333	ND	64.2	40-140				
Benzo (k) fluoranthene	0.0208	0.00500	"	0.0333	ND	62.5	40-140				
Chrysene	0.0228	0.00500	"	0.0333	ND	68.5	40-140				
Dibenz (a,h) anthracene	0.0216	0.00500	"	0.0333	ND	64.9	40-140				
Fluoranthene	0.0257	0.00500	"	0.0333	ND	77.1	40-140				
Fluorene	0.0237	0.00500	"	0.0333	ND	71.0	40-140				
Indeno (1,2,3-cd) pyrene	0.0145	0.00500	"	0.0333	ND	43.5	40-140				
Pyrene	0.0225	0.00500	"	0.0333	ND	67.6	40-140				
1-Methylnaphthalene	0.0248	0.00500	"	0.0333	ND	74.3	40-140				
2-Methylnaphthalene	0.0257	0.00500	"	0.0333	ND	77.1	40-140				
Surrogate: 2-Methylnaphthalene-d10	0.0246		"	0.0333		73.9	40-140				
Surrogate: Fluoranthene-d10	0.0265		"	0.0333		79.5	40-140				

Matrix Spike Dup (BIA0852-MSD1)		Source: 2501202-01			Prepared: 01/20/25 Analyzed: 01/26/25						
Acenaphthene	0.0157	0.00500	mg/kg	0.0333	ND	47.2	40-140	27.0	30		
Anthracene	0.0175	0.00500	"	0.0333	ND	52.5	40-140	33.1	30		QR-02
Benzo (a) anthracene	0.0173	0.00500	"	0.0333	ND	51.9	40-140	32.4	30		QR-02
Benzo (a) pyrene	0.0166	0.00500	"	0.0333	ND	49.8	40-140	28.2	30		
Benzo (b) fluoranthene	0.0158	0.00500	"	0.0333	ND	47.5	40-140	30.0	30		
Benzo (k) fluoranthene	0.0149	0.00500	"	0.0333	ND	44.6	40-140	33.5	30		QR-02
Chrysene	0.0157	0.00500	"	0.0333	ND	47.1	40-140	37.0	30		QR-02
Dibenz (a,h) anthracene	0.0168	0.00500	"	0.0333	ND	50.3	40-140	25.2	30		
Fluoranthene	0.0179	0.00500	"	0.0333	ND	53.7	40-140	35.8	30		QR-02
Fluorene	0.0170	0.00500	"	0.0333	ND	51.1	40-140	32.6	30		QR-02
Indeno (1,2,3-cd) pyrene	0.0116	0.00500	"	0.0333	ND	34.9	40-140	22.1	30		QM-05
Pyrene	0.0165	0.00500	"	0.0333	ND	49.6	40-140	30.8	30		QR-02
1-Methylnaphthalene	0.0160	0.00500	"	0.0333	ND	48.1	40-140	42.9	30		QR-02
2-Methylnaphthalene	0.0170	0.00500	"	0.0333	ND	51.1	40-140	40.6	30		QR-02
Surrogate: 2-Methylnaphthalene-d10	0.0145		"	0.0333		43.6	40-140				
Surrogate: Fluoranthene-d10	0.0185		"	0.0333		55.5	40-140				

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**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 BIA0826 - EPA 3050B**

**Blank (BIA0826-BLK1)**

Prepared: 01/17/25 Analyzed: 01/20/25

Boron ND 2.00 mg/L

**LCS (BIA0826-BS1)**

Prepared: 01/17/25 Analyzed: 01/20/25

Boron 5.18 2.00 mg/L 5.00 104 80-120

**Duplicate (BIA0826-DUP1)**

**Source: 2501246-01**

Prepared: 01/17/25 Analyzed: 01/20/25

Boron 0.456 2.00 mg/L 0.469 2.82 20

**Matrix Spike (BIA0826-MS1)**

**Source: 2501246-01**

Prepared: 01/17/25 Analyzed: 01/20/25

Boron 5.43 2.00 mg/L 5.00 0.469 99.1 75-125

**Matrix Spike Dup (BIA0826-MSD1)**

**Source: 2501246-01**

Prepared: 01/17/25 Analyzed: 01/20/25

Boron 5.73 2.00 mg/L 5.00 0.469 105 75-125 5.47 25

**Batch BIA0828 - EPA 3050B**

**Blank (BIA0828-BLK1)**

Prepared: 01/17/25 Analyzed: 01/20/25

Boron ND 2.00 mg/L

**LCS (BIA0828-BS1)**

Prepared: 01/17/25 Analyzed: 01/20/25

Boron 5.17 2.00 mg/L 5.00 103 80-120

**Duplicate (BIA0828-DUP1)**

**Source: 2412038-37**

Prepared: 01/17/25 Analyzed: 01/20/25

Boron 0.123 2.00 mg/L 0.153 21.6 20 QR-01

**Matrix Spike (BIA0828-MS1)**

**Source: 2412038-37**

Prepared: 01/17/25 Analyzed: 01/20/25

Boron 5.31 2.00 mg/L 5.00 0.153 103 75-125

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**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 BIA0828 - EPA 3050B**

**Matrix Spike Dup (BIA0828-MSD1)**

**Source: 2412038-37**

Prepared: 01/17/25 Analyzed: 01/20/25

Boron	5.36	2.00	mg/L	5.00	0.153	104	75-125	0.877	25
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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**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 BIA0805 - EPA 3050B**

**Blank (BIA0805-BLK1)**

Prepared: 01/17/25 Analyzed: 01/19/25

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 (BIA0805-BS1)**

Prepared: 01/17/25 Analyzed: 01/19/25

Arsenic	42.9	0.200	mg/kg wet	41.3	104	80-120
Barium	42.3	0.400	"	41.3	102	80-120
Cadmium	2.05	0.200	"	2.07	99.3	80-120
Copper	42.7	0.400	"	41.3	103	80-120
Lead	20.4	0.200	"	20.7	98.6	80-120
Nickel	43.3	0.400	"	41.3	105	80-120
Silver	2.03	0.0200	"	2.07	98.5	80-120
Zinc	42.8	0.400	"	41.3	104	80-120
Selenium	4.15	0.260	"	4.13	100	80-120

**Duplicate (BIA0805-DUP1)**

Source: 2501242-01

Prepared: 01/17/25 Analyzed: 01/19/25

Arsenic	5.45	0.200	mg/kg dry	5.64	3.32	20
Barium	159	0.400	"	160	0.467	20
Cadmium	0.360	0.200	"	0.361	0.217	20
Copper	10.8	0.400	"	10.7	0.961	20
Lead	12.6	0.200	"	12.6	0.212	20
Nickel	7.59	0.400	"	7.57	0.314	20
Silver	0.0860	0.0200	"	0.0867	0.784	20
Zinc	27.5	0.400	"	27.3	0.847	20
Selenium	ND	0.260	"	ND		20

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**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 BIA0805 - EPA 3050B**

Matrix Spike (BIA0805-MS1)		Source: 2501242-01			Prepared: 01/17/25 Analyzed: 01/19/25					
Arsenic	60.4	0.200	mg/kg dry	53.9	5.64	102	75-125			
Barium	242	0.400	"	53.9	160	152	75-125			QM-05
Cadmium	3.06	0.200	"	2.69	0.361	100	75-125			
Copper	40.8	0.400	"	53.9	10.7	55.8	75-125			QM-05
Lead	38.9	0.200	"	26.9	12.6	97.9	75-125			
Nickel	38.5	0.400	"	53.9	7.57	57.4	75-125			QM-05
Silver	2.74	0.0200	"	2.69	0.0867	98.6	75-125			
Zinc	60.0	0.400	"	53.9	27.3	60.7	75-125			QM-05
Selenium	4.18	0.260	"	5.39	ND	77.6	75-125			

Matrix Spike Dup (BIA0805-MSD1)		Source: 2501242-01			Prepared: 01/17/25 Analyzed: 01/19/25					
Arsenic	60.6	0.200	mg/kg dry	53.4	5.64	103	75-125	0.346	25	
Barium	241	0.400	"	53.4	160	151	75-125	0.482	25	QM-05
Cadmium	3.03	0.200	"	2.67	0.361	99.9	75-125	1.12	25	
Copper	40.5	0.400	"	53.4	10.7	55.7	75-125	0.727	25	QM-05
Lead	38.5	0.200	"	26.7	12.6	97.3	75-125	0.963	25	
Nickel	38.3	0.400	"	53.4	7.57	57.5	75-125	0.595	25	QM-05
Silver	2.71	0.0200	"	2.67	0.0867	98.3	75-125	1.16	25	
Zinc	59.5	0.400	"	53.4	27.3	60.3	75-125	0.872	25	QM-05
Selenium	4.13	0.260	"	5.34	ND	77.3	75-125	1.20	25	

**Batch BIA0806 - EPA 3050B**

Blank (BIA0806-BLK1)		Prepared: 01/17/25 Analyzed: 01/19/25								
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	"							

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**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 BIA0806 - EPA 3050B**

**LCS (BIA0806-BS1)**

Prepared: 01/17/25 Analyzed: 01/19/25

Arsenic	43.1	0.200	mg/kg wet	40.0		108	80-120
Barium	41.8	0.400	"	40.0		104	80-120
Cadmium	1.97	0.200	"	2.00		98.5	80-120
Copper	41.1	0.400	"	40.0		103	80-120
Lead	19.8	0.200	"	20.0		98.9	80-120
Nickel	41.7	0.400	"	40.0		104	80-120
Silver	1.96	0.0200	"	2.00		97.8	80-120
Zinc	41.0	0.400	"	40.0		102	80-120
Selenium	4.22	0.260	"	4.00		105	80-120

**Duplicate (BIA0806-DUP1)**

Source: 2501246-02

Prepared: 01/17/25 Analyzed: 01/20/25

Arsenic	1.22	0.200	mg/kg dry		1.21		0.714	20
Barium	30.3	0.400	"		29.2		3.67	20
Cadmium	0.0750	0.200	"		0.0763		1.64	20
Copper	2.01	0.400	"		1.95		3.26	20
Lead	2.89	0.200	"		2.80		3.03	20
Nickel	2.23	0.400	"		2.12		5.17	20
Silver	0.0153	0.0200	"		0.0157		2.67	20
Zinc	10.4	0.400	"		10.1		2.86	20
Selenium	ND	0.260	"		ND			20

**Matrix Spike (BIA0806-MS1)**

Source: 2501246-02

Prepared: 01/17/25 Analyzed: 01/20/25

Arsenic	44.6	0.200	mg/kg dry	41.4	1.21	105	75-125
Barium	74.6	0.400	"	41.4	29.2	109	75-125
Cadmium	2.08	0.200	"	2.07	0.0763	96.9	75-125
Copper	35.0	0.400	"	41.4	1.95	79.7	75-125
Lead	23.3	0.200	"	20.7	2.80	98.9	75-125
Nickel	35.8	0.400	"	41.4	2.12	81.4	75-125
Silver	1.99	0.0200	"	2.07	0.0157	95.4	75-125
Zinc	44.9	0.400	"	41.4	10.1	84.0	75-125
Selenium	3.76	0.260	"	4.14	ND	90.8	75-125

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**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 BIA0806 - EPA 3050B**

**Matrix Spike Dup (BIA0806-MSD1)**

Source: 2501246-02

Prepared: 01/17/25 Analyzed: 01/20/25

Arsenic	45.1	0.200	mg/kg dry	41.4	1.21	106	75-125	1.14	25
Barium	73.9	0.400	"	41.4	29.2	108	75-125	0.939	25
Cadmium	2.08	0.200	"	2.07	0.0763	96.7	75-125	0.199	25
Copper	35.5	0.400	"	41.4	1.95	81.0	75-125	1.51	25
Lead	23.1	0.200	"	20.7	2.80	97.9	75-125	0.877	25
Nickel	36.3	0.400	"	41.4	2.12	82.5	75-125	1.25	25
Silver	1.97	0.0200	"	2.07	0.0157	94.3	75-125	1.17	25
Zinc	45.3	0.400	"	41.4	10.1	85.0	75-125	0.857	25
Selenium	3.89	0.260	"	4.14	ND	93.9	75-125	3.43	25

**Batch BIA0807 - EPA 3050B**

**Blank (BIA0807-BLK1)**

Prepared: 01/17/25 Analyzed: 01/20/25

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 (BIA0807-BS1)**

Prepared: 01/17/25 Analyzed: 01/20/25

Arsenic	42.1	0.200	mg/kg wet	41.3	102	80-120
Barium	42.1	0.400	"	41.3	102	80-120
Cadmium	2.03	0.200	"	2.07	98.4	80-120
Copper	43.0	0.400	"	41.3	104	80-120
Lead	20.2	0.200	"	20.7	97.6	80-120
Nickel	43.5	0.400	"	41.3	105	80-120
Silver	1.99	0.0200	"	2.07	96.5	80-120
Zinc	42.4	0.400	"	41.3	103	80-120
Selenium	4.09	0.260	"	4.13	99.1	80-120

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**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 BIA0807 - EPA 3050B**

Duplicate (BIA0807-DUP1)			Source: 2501246-22		Prepared: 01/17/25 Analyzed: 01/20/25					
Arsenic	2.94	0.200	mg/kg dry		2.95			0.336	20	
Barium	86.6	0.400	"		87.0			0.391	20	
Cadmium	0.256	0.200	"		0.258			0.585	20	
Copper	5.90	0.400	"		5.73			2.84	20	
Lead	9.35	0.200	"		9.41			0.558	20	
Nickel	5.09	0.400	"		4.93			3.20	20	
Silver	0.0449	0.0200	"		0.0458			2.12	20	
Zinc	24.6	0.400	"		24.0			2.44	20	
Selenium	ND	0.260	"		ND				20	

Matrix Spike (BIA0807-MS1)			Source: 2501246-22		Prepared: 01/17/25 Analyzed: 01/20/25					
Arsenic	48.2	0.200	mg/kg dry	45.4	2.95	99.6	75-125			
Barium	123	0.400	"	45.4	87.0	79.0	75-125			
Cadmium	2.43	0.200	"	2.27	0.258	95.7	75-125			
Copper	33.8	0.400	"	45.4	5.73	61.9	75-125			QM-05
Lead	37.3	0.200	"	22.7	9.41	123	75-125			
Nickel	33.8	0.400	"	45.4	4.93	63.5	75-125			QM-05
Silver	2.21	0.0200	"	2.27	0.0458	95.1	75-125			
Zinc	54.8	0.400	"	45.4	24.0	67.8	75-125			QM-05
Selenium	3.90	0.260	"	4.54	ND	85.9	75-125			

Matrix Spike Dup (BIA0807-MSD1)			Source: 2501246-22		Prepared: 01/17/25 Analyzed: 01/20/25					
Arsenic	47.6	0.200	mg/kg dry	45.8	2.95	97.4	75-125	1.29	25	
Barium	122	0.400	"	45.8	87.0	76.5	75-125	0.703	25	
Cadmium	2.45	0.200	"	2.29	0.258	95.9	75-125	0.903	25	
Copper	34.4	0.400	"	45.8	5.73	62.7	75-125	1.78	25	QM-05
Lead	32.7	0.200	"	22.9	9.41	102	75-125	13.0	25	
Nickel	34.4	0.400	"	45.8	4.93	64.3	75-125	1.78	25	QM-05
Silver	2.19	0.0200	"	2.29	0.0458	93.7	75-125	0.663	25	
Zinc	53.5	0.400	"	45.8	24.0	64.6	75-125	2.25	25	QM-05
Selenium	3.95	0.260	"	4.58	ND	86.3	75-125	1.36	25	

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**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 BIA0811 - 3060A Mod**

<b>Blank (BIA0811-BLK1)</b>					Prepared & Analyzed: 01/17/25					
Chromium, Hexavalent	ND	0.30	mg/kg wet							
<b>LCS (BIA0811-BS1)</b>					Prepared & Analyzed: 01/17/25					
Chromium, Hexavalent	23.5	0.30	mg/kg wet	24.3		97.0	80-120			
<b>Duplicate (BIA0811-DUP1)</b>					Source: 2501246-01 Prepared & Analyzed: 01/17/25					
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
<b>Matrix Spike (BIA0811-MS1)</b>					Source: 2501246-01 Prepared & Analyzed: 01/17/25					
Chromium, Hexavalent	25.3	0.30	mg/kg dry	25.3	ND	100	75-125			
<b>Matrix Spike Dup (BIA0811-MSD1)</b>					Source: 2501246-01 Prepared & Analyzed: 01/17/25					
Chromium, Hexavalent	27.2	0.30	mg/kg dry	26.9	ND	101	75-125	7.13	20	

**Batch BIA0814 - 3060A Mod**

<b>Blank (BIA0814-BLK1)</b>					Prepared & Analyzed: 01/17/25					
Chromium, Hexavalent	ND	0.30	mg/kg wet							
<b>LCS (BIA0814-BS1)</b>					Prepared & Analyzed: 01/17/25					
Chromium, Hexavalent	23.5	0.30	mg/kg wet	24.0		97.8	80-120			
<b>Duplicate (BIA0814-DUP1)</b>					Source: 2501246-16 Prepared & Analyzed: 01/17/25					
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
<b>Matrix Spike (BIA0814-MS1)</b>					Source: 2501246-16 Prepared & Analyzed: 01/17/25					
Chromium, Hexavalent	28.5	0.30	mg/kg dry	25.3	ND	113	75-125			

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL

Project Number: UWRWE-A4040-ABN

Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

### Hexavalent Chromium by EPA Method 7196 - Quality Control

#### Summit Scientific

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

#### Batch BIA0814 - 3060A Mod

##### Matrix Spike Dup (BIA0814-MSD1)

Source: 2501246-16

Prepared & Analyzed: 01/17/25

Chromium, Hexavalent	27.4	0.30	mg/kg dry	25.8	ND	106	75-125	3.87	20
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Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**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 BIA0788 - General Preparation**

**Blank (BIA0788-BLK1)**

Prepared: 01/16/25 Analyzed: 01/18/25

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

**LCS (BIA0788-BS1)**

Prepared: 01/16/25 Analyzed: 01/18/25

Calcium	5.77	0.0500	mg/L wet	5.00	115	70-130
Magnesium	4.94	0.0500	"	5.00	98.7	70-130
Sodium	4.82	0.0500	"	5.00	96.5	70-130

**Batch BIB0297 - General Preparation**

**Blank (BIB0297-BLK1)**

Prepared: 02/06/25 Analyzed: 02/13/25

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

**LCS (BIB0297-BS1)**

Prepared: 02/06/25 Analyzed: 02/13/25

Calcium	5.78	0.0500	mg/L wet	5.00	116	70-130
Magnesium	5.24	0.0500	"	5.00	105	70-130
Sodium	4.86	0.0500	"	5.00	97.2	70-130

Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL

Project Number: UWRWE-A4040-ABN

Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

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

**Summit Scientific**

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

**Batch BIA0809 - General Preparation**

**Duplicate (BIA0809-DUP1)**

**Source: 2501242-01**

Prepared & Analyzed: 01/17/25

% Solids	75.7	%		76.7			1.33	20
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**Batch BIA0810 - General Preparation**

**Duplicate (BIA0810-DUP1)**

**Source: 2501246-13**

Prepared & Analyzed: 01/17/25

% Solids	75.5	%		74.6			1.15	20
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Summit Scientific

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

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

**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 BIA0790 - General Preparation**

**Blank (BIA0790-BLK1)**

Prepared: 01/16/25 Analyzed: 01/17/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BIA0790-BS1)**

Prepared: 01/16/25 Analyzed: 01/17/25

Specific Conductance (EC) 1.39 0.0100 mmhos/cm 1.41 98.3 95-105

**Duplicate (BIA0790-DUP1)**

**Source: 2501231-01**

Prepared: 01/16/25 Analyzed: 01/17/25

Specific Conductance (EC) 0.0676 0.0100 mmhos/cm 0.0667 1.23 20

**Batch BIB0299 - General Preparation**

**Blank (BIB0299-BLK1)**

Prepared: 02/06/25 Analyzed: 02/07/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BIB0299-BS1)**

Prepared: 02/06/25 Analyzed: 02/07/25

Specific Conductance (EC) 1.37 0.0100 mmhos/cm 1.41 97.0 95-105

**Duplicate (BIB0299-DUP1)**

**Source: 2501201-01**

Prepared: 02/06/25 Analyzed: 02/07/25

Specific Conductance (EC) 0.677 0.0100 mmhos/cm 0.678 0.285 20

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Broomfield CO, 80020

Project: Noble - DR. Joe CC06-09 FL  
Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

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

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

**Batch BIA0789 - General Preparation**

**LCS (BIA0789-BS1)** Prepared: 01/16/25 Analyzed: 01/17/25

pH	9.30	pH Units	9.18	101	95-105
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**Duplicate (BIA0789-DUP1)** Source: 2501231-01 Prepared: 01/16/25 Analyzed: 01/17/25

pH	7.56	pH Units	7.52	0.488	20
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**Batch BIB0303 - General Preparation**

**LCS (BIB0303-BS1)** Prepared: 02/06/25 Analyzed: 02/07/25

pH	9.22	pH Units	9.18	100	95-105
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**Duplicate (BIB0303-DUP1)** Source: 2501201-01 Prepared: 02/06/25 Analyzed: 02/07/25

pH	7.82	pH Units	7.87	0.707	20
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Broomfield CO, 80020

Project: Noble - DR. Joe CC06-09 FL

Project Number: UWRWE-A4040-ABN  
Project Manager: Daniel Simpson

**Reported:**  
02/28/25 18:40

### Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR-01	Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
QLCS-01	The spike recovery was outside acceptance limits for this analyte indicating a potential high bias. The corresponding samples did not exhibit concentrations above reporting level for this analyte. Data quality is not affected.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
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