

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 29, 2025

Bryce Goldade

Tasman Geosciences

4725 Independence St.

Wheat Ridge, CO 80033

RE: Noble - Bashor PC AA 9-14 Tank Battery

Work Order #2503138

Enclosed are the results of analyses for samples received by Summit Scientific on 03/10/25 17:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Natalie Tessier". The signature is written in a cursive, flowing style.

Natalie Tessier For Paul Shrewsbury

President



Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01@0-6"	2503138-01	Soil	03/10/25 12:52	03/10/25 17:50
AST02@@@0-6"	2503138-02	Soil	03/10/25 12:55	03/10/25 17:50
PWV01-B@4'	2503138-03	Soil	03/10/25 13:04	03/10/25 17:50
PWV01-S@2.5'	2503138-04	Soil	03/10/25 13:07	03/10/25 17:50
SEP01-FL@3'	2503138-05	Soil	03/10/25 13:54	03/10/25 17:50
SEP01-DL@3'	2503138-06	Soil	03/10/25 13:55	03/10/25 17:50
SEP02-FL@3'	2503138-10	Soil	03/10/25 14:04	03/10/25 17:50
SEP02-DL@3'	2503138-11	Soil	03/10/25 14:05	03/10/25 17:50

# SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2503138	

Client: Noble/Tasman	<b>Send Data To:</b> Project Manager: Bryce Goldade	<b>Send Invoice To:</b> Company: Noble
Address: 6855 W. 119th Ave. <sup>234</sup> 4725 N. Ingersoll St	E-Mail: tas-chevron-4@tasman-geo.com	Project Name/Location:
City/State/Zip: Broomfield, CO / 80020 <sup>234</sup> Wheatridge, CO	RBUEF27@Chevron.com	AFE#: <u>UNRWE-A4407-ABN</u>
Phone: <u>8100230781</u>	Project Name: <u>BATTERY PC AA 9-14 tank</u>	PO/Billing Codes:
Sampler Name: <u>SIMMONS WALLS</u>	Project Number: <u>BATTERY</u>	Contact: <u>MIKE WONTUCHA</u>

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	ASTO1 @ 0-6"	3/10/25	1252	2			X			X											SAR, EC, pH by saturated paste
2	ASTO2 @ 0-6"		1255																		
3	PWVO1-B @ 4'		1304																		
4	PWVO1-S @ 2.5'		1307																		
5	SEPO1-FL @ 3'		1354																		
6	SEPO1-DL @ 3'		1355																		
7	PWVO1-N @ 2.5'		1305																		X
8	PWVO1-E @ 2.5'		1300																		X
9	PWVO1-N @ 2.5'		1308																		X
10	SEPO2-FL @ 3'		1404									X	X	X	X	X	X				
11	SEPO2-DL @ 3'		1405									X	X	X	X	X	X				
12																					
13																					
14																					
15																					

Relinquished by: <u>Simmons Walls</u>	Date/Time: <u>3-10-25 1400</u>	Received by: <u>Tasman Lock Box</u>	Date/Time: <u>3-10-25 1400</u>	TAT Business Days	Field DO	Notes: <u>*SEPO1-FL &amp; SEPO2-DL on same day</u>
Relinquished by: <u>Tasman Lock Box</u>	Date/Time: <u>3/10/25 1750</u>	Received by: <u>[Signature]</u>	Date/Time: <u>3/10/25 1750</u>	Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: <u>5.9</u>	Corrected Temperature: <u>0</u>	IR gun #:	HNO3 lot #:	Standard <input checked="" type="checkbox"/>	Field Turb.	

# S<sub>2</sub>

S2 Work Order# 2503138

## Sample Receipt Checklist

Client: Noble Gasman Client Project ID: Bashov PC AA - 9M Tank BatteryReceived Via: H.D./P.U./FedEx/UPS/USPS/Other  Airbill #: \_\_\_\_\_Matrix (Circle all that apply) Air/Soil/Water/Other  Temp (°C) 8.9 Thermometer # 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> NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	-			<u>on 20E</u>
If custody seals are present, are they intact? <sup>(1)</sup>	-			
Are samples due within 48 hours?	-	<u>Co</u>		<u>Sameday</u>
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>	✓			
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>	✓			
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):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

Control Form #: SRC-001

SN  
Custodian Printed Name

3/10/25  
Date/Time



Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**AST01@0-6"**  
**2503138-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/10/25 12:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIC1123	03/19/25	04/18/25	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: **03/10/25 12:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0308	76.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0380	95.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0368	92.0 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/10/25 12:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIC1127	03/19/25	04/19/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/10/25 12:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.84	62.8 %	50-140		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Wheat Ridge CO, 80033

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**2503138-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/10/25 12:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC1115	03/19/25	04/05/25	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: **03/10/25 12:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0187	56.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0210	63.0 %	40-140		"	"	"	"	

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

Date Sampled: **03/10/25 12:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC0573	03/11/25	03/11/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/10/25 12:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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4725 Independence St.  
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Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**AST01@0-6"**  
**2503138-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.30	0.200	mg/kg dry	1	BIC0600	03/11/25	03/12/25	EPA 6020B	
Barium	66.3	0.400	"	"	"	"	"	"	
Cadmium	0.336	0.200	"	"	"	"	"	"	
Copper	5.47	0.400	"	"	"	"	"	"	
Lead	8.70	0.200	"	"	"	"	"	"	
Nickel	4.66	0.400	"	"	"	"	"	"	
Silver	0.0420	0.0200	"	"	"	"	"	"	
Zinc	24.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/10/25 12:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0608	03/11/25	03/11/25	EPA 7196A	

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

Date Sampled: **03/10/25 12:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	104	0.0500	mg/L dry	1	BID0053	04/01/25	04/13/25	EPA 6020B	
Magnesium	27.7	0.0500	"	"	"	"	"	"	
Sodium	22.3	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/10/25 12:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.502	0.00100	units	1	BID0946	04/16/25	04/16/25	Calculation	

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

Date Sampled: **03/10/25 12:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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4725 Independence St.  
Wheat Ridge CO, 80033

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Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**AST01@0-6"**  
**2503138-01 (Soil)**

**Summit Scientific**

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

% Solids	85.1	%	1	BIC0577	03/11/25	03/11/25	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **03/10/25 12:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.33	0.0100	mmhos/cm	1	BID0052	04/01/25	04/04/25	EPA 120.1	

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

Date Sampled: **03/10/25 12:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.60		pH Units	1	BID0051	04/01/25	04/04/25	EPA 9045D	

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Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**AST02@@0-6''**  
**2503138-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/10/25 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIC1123	03/19/25	04/18/25	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: **03/10/25 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0315	78.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0381	95.2 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/10/25 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIC1127	03/19/25	04/19/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/10/25 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.08	72.7 %	50-140		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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**Reported:**  
04/29/25 11:10

**AST02@@@0-6''**  
**2503138-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/10/25 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC1115	03/19/25	04/05/25	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: **03/10/25 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0213	63.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0235	70.5 %	40-140		"	"	"	"	

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

Date Sampled: **03/10/25 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC0573	03/11/25	03/11/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/10/25 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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4725 Independence St.  
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Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**AST02@@@0-6''  
2503138-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.76	0.200	mg/kg dry	1	BIC0600	03/11/25	03/11/25	EPA 6020B	
Barium	63.4	0.400	"	"	"	"	"	"	
Cadmium	0.278	0.200	"	"	"	"	"	"	
Copper	4.82	0.400	"	"	"	"	"	"	
Lead	7.46	0.200	"	"	"	"	"	"	
Nickel	3.96	0.400	"	"	"	"	"	"	
Silver	0.0352	0.0200	"	"	"	"	"	"	
Zinc	18.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/10/25 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0608	03/11/25	03/11/25	EPA 7196A	

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

Date Sampled: **03/10/25 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	52.6	0.0500	mg/L dry	1	BID0053	04/01/25	04/13/25	EPA 6020B	
Magnesium	15.8	0.0500	"	"	"	"	"	"	
Sodium	34.9	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/10/25 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.08	0.00100	units	1	BID0946	04/16/25	04/16/25	Calculation	

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

Date Sampled: **03/10/25 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Bashor PC AA 9-14 Tank Battery  
 Project Number: UWRWE-A4407-ABN  
 Project Manager: Bryce Goldade

**Reported:**  
 04/29/25 11:10

**AST02@@@0-6''  
 2503138-02 (Soil)**

**Summit Scientific**

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

% Solids	88.2	%	1	BIC0577	03/11/25	03/11/25	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **03/10/25 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.827	0.0100	mmhos/cm	1	BID0052	04/01/25	04/04/25	EPA 120.1	

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

Date Sampled: **03/10/25 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.88		pH Units	1	BID0051	04/01/25	04/04/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**PWV01-B@4'**  
**2503138-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/10/25 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIC1123	03/19/25	04/18/25	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: **03/10/25 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0297	74.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0378	94.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0361	90.3 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/10/25 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIC1127	03/19/25	04/19/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/10/25 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.95	63.6 %	50-140		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**PWV01-B@4'**  
**2503138-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/10/25 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC1115	03/19/25	04/05/25	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	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.00591</b>	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: **03/10/25 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0181	54.2 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0178	53.3 %	40-140		"	"	"	"	

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

Date Sampled: **03/10/25 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC0573	03/11/25	03/11/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/10/25 13:04**

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

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**PWV01-B@4'**  
**2503138-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.47	0.200	mg/kg dry	1	BIC0600	03/11/25	03/11/25	EPA 6020B
Barium	46.1	0.400	"	"	"	"	"	"
Cadmium	0.223	0.200	"	"	"	"	"	"
Copper	3.98	0.400	"	"	"	"	"	"
Lead	5.93	0.200	"	"	"	"	"	"
Nickel	3.76	0.400	"	"	"	"	"	"
Silver	0.0303	0.0200	"	"	"	"	"	"
Zinc	16.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/10/25 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0608	03/11/25	03/11/25	EPA 7196A	

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

Date Sampled: **03/10/25 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	25.9	0.0500	mg/L dry	1	BID0053	04/01/25	04/13/25	EPA 6020B	
Magnesium	3.77	0.0500	"	"	"	"	"	"	
Sodium	6.54	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/10/25 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.318	0.00100	units	1	BID0946	04/16/25	04/16/25	Calculation	

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

Date Sampled: **03/10/25 13:04**

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

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**PWV01-B@4'**  
**2503138-03 (Soil)**

**Summit Scientific**

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

% Solids	85.7	%	1	BIC0577	03/11/25	03/11/25	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **03/10/25 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.232</b>	0.0100	mmhos/cm	1	BID0052	04/01/25	04/04/25	EPA 120.1	

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

Date Sampled: **03/10/25 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.19</b>		pH Units	1	BID0051	04/01/25	04/04/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**PWV01-S@2.5'**  
**2503138-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/10/25 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIC1123	03/19/25	04/18/25	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: **03/10/25 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0310	77.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0386	96.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0376	94.1 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/10/25 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIC1127	03/19/25	04/19/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/10/25 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.91	63.3 %	50-140		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**PWV01-S@2.5'**  
**2503138-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/10/25 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC1115	03/19/25	04/05/25	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	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0146</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0392</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0393</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **03/10/25 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0202	60.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0218	65.3 %	40-140		"	"	"	"	

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

Date Sampled: **03/10/25 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC0573	03/11/25	03/11/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/10/25 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**PWV01-S@2.5'**  
**2503138-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.04	0.200	mg/kg dry	1	BIC0600	03/11/25	03/11/25	EPA 6020B	
Barium	56.3	0.400	"	"	"	"	"	"	
Cadmium	0.301	0.200	"	"	"	"	"	"	
Copper	5.01	0.400	"	"	"	"	"	"	
Lead	7.88	0.200	"	"	"	"	"	"	
Nickel	4.40	0.400	"	"	"	"	"	"	
Silver	0.0372	0.0200	"	"	"	"	"	"	
Zinc	22.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/10/25 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0608	03/11/25	03/11/25	EPA 7196A	

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

Date Sampled: **03/10/25 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	47.4	0.0500	mg/L dry	1	BID0053	04/01/25	04/13/25	EPA 6020B	
Magnesium	12.2	0.0500	"	"	"	"	"	"	
Sodium	18.5	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/10/25 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.620	0.00100	units	1	BID0946	04/16/25	04/16/25	Calculation	

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

Date Sampled: **03/10/25 13:07**

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

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Tasman Geosciences  
 4725 Independence St.  
 Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
 Project Number: UWRWE-A4407-ABN  
 Project Manager: Bryce Goldade

**Reported:**  
 04/29/25 11:10

**PWV01-S@2.5'**  
**2503138-04 (Soil)**

**Summit Scientific**

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

% Solids	87.0	%	1	BIC0577	03/11/25	03/11/25	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **03/10/25 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.575	0.0100	mmhos/cm	1	BID0052	04/01/25	04/04/25	EPA 120.1	

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

Date Sampled: **03/10/25 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.94		pH Units	1	BID0051	04/01/25	04/04/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**SEP01-FL@3'**  
**2503138-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/10/25 13:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BIC0566	03/10/25	03/10/25	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.017</b>	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: **03/10/25 13:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0464	116 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0390	97.5 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0405	101 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/10/25 13:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BIC0570	03/10/25	03/11/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/10/25 13:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.10	72.8 %		50-140		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**SEP01-FL@3'**  
**2503138-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/10/25 13:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC1064	03/18/25	04/12/25	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: **03/10/25 13:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0265	79.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0274	82.3 %	40-140		"	"	"	"	

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

Date Sampled: **03/10/25 13:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC0573	03/11/25	03/11/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/10/25 13:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**SEP01-FL@3'**  
**2503138-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	5.85	0.200	mg/kg dry	1	BIC0600	03/11/25	03/12/25	EPA 6020B	
Barium	494	0.400	"	"	"	"	"	"	
Cadmium	1.76	0.200	"	"	"	"	"	"	
Copper	25.7	0.400	"	"	"	"	"	"	
Lead	7.48	0.200	"	"	"	"	"	"	
Nickel	7.22	0.400	"	"	"	"	"	"	
Silver	0.0207	0.0200	"	"	"	"	"	"	
Zinc	35.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/10/25 13:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0608	03/11/25	03/11/25	EPA 7196A	

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

Date Sampled: **03/10/25 13:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	529	0.0500	mg/L dry	1	BIC0565	03/10/25	03/12/25	EPA 6020B	
Magnesium	86.5	0.0500	"	"	"	"	"	"	
Sodium	8.14	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/10/25 13:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0865	0.00100	units	1	BIC0748	03/13/25	03/13/25	Calculation	

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

Date Sampled: **03/10/25 13:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**SEP01-FL@3'**  
**2503138-05 (Soil)**

**Summit Scientific**

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

% Solids	87.4	%	1	BIC0577	03/11/25	03/11/25	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **03/10/25 13:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.152</b>	0.0100	mmhos/cm	1	BIC0572	03/10/25	03/12/25	EPA 120.1	

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

Date Sampled: **03/10/25 13:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.60</b>		pH Units	1	BIC0568	03/10/25	03/12/25	EPA 9045D	

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**SEP01-DL@3'**  
**2503138-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/10/25 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIC1123	03/19/25	04/18/25	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: **03/10/25 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0309	77.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0393	98.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0369	92.3 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/10/25 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIC1127	03/19/25	04/20/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/10/25 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.40	67.2 %	50-140		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**SEP01-DL@3'**  
**2503138-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/10/25 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC1115	03/19/25	04/05/25	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: **03/10/25 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0183	54.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0210	63.0 %	40-140		"	"	"	"	

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

Date Sampled: **03/10/25 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC0573	03/11/25	03/11/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/10/25 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**SEP01-DL@3'**  
**2503138-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.66	0.200	mg/kg dry	1	BIC0600	03/11/25	03/11/25	EPA 6020B	
Barium	64.7	0.400	"	"	"	"	"	"	
Cadmium	0.298	0.200	"	"	"	"	"	"	
Copper	4.76	0.400	"	"	"	"	"	"	
Lead	6.68	0.200	"	"	"	"	"	"	
Nickel	4.26	0.400	"	"	"	"	"	"	
Silver	0.0288	0.0200	"	"	"	"	"	"	
Zinc	18.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/10/25 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0608	03/11/25	03/11/25	EPA 7196A	

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

Date Sampled: **03/10/25 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	54.4	0.0500	mg/L dry	1	BID0053	04/01/25	04/13/25	EPA 6020B	
Magnesium	13.6	0.0500	"	"	"	"	"	"	
Sodium	3.24	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/10/25 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.102	0.00100	units	1	BID0946	04/16/25	04/16/25	Calculation	

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

Date Sampled: **03/10/25 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
 4725 Independence St.  
 Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
 Project Number: UWRWE-A4407-ABN  
 Project Manager: Bryce Goldade

**Reported:**  
 04/29/25 11:10

**SEP01-DL@3'**  
**2503138-06 (Soil)**

**Summit Scientific**

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

% Solids	87.6	%	1	BIC0577	03/11/25	03/11/25	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **03/10/25 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.232	0.0100	mmhos/cm	1	BID0052	04/01/25	04/04/25	EPA 120.1	

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

Date Sampled: **03/10/25 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.42		pH Units	1	BID0051	04/01/25	04/04/25	EPA 9045D	

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**SEP02-FL@3'**  
**2503138-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/10/25 14:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIC1123	03/19/25	04/18/25	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: **03/10/25 14:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0290	72.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0384	96.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0368	91.9 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/10/25 14:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIC1127	03/19/25	04/20/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/10/25 14:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.72	69.8 %	50-140		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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4725 Independence St.  
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Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**SEP02-FL@3'**  
**2503138-10 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/10/25 14:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC1115	03/19/25	04/05/25	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: **03/10/25 14:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0208	62.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0202	60.6 %	40-140		"	"	"	"	

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

Date Sampled: **03/10/25 14:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC0573	03/11/25	03/11/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/10/25 14:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**SEP02-FL@3'**  
**2503138-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.65	0.200	mg/kg dry	1	BIC0600	03/11/25	03/11/25	EPA 6020B	
Barium	49.4	0.400	"	"	"	"	"	"	
Cadmium	0.210	0.200	"	"	"	"	"	"	
Copper	4.24	0.400	"	"	"	"	"	"	
Lead	6.46	0.200	"	"	"	"	"	"	
Nickel	3.92	0.400	"	"	"	"	"	"	
Silver	0.0279	0.0200	"	"	"	"	"	"	
Zinc	17.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/10/25 14:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0608	03/11/25	03/11/25	EPA 7196A	

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

Date Sampled: **03/10/25 14:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	103	0.0500	mg/L dry	1	BID0053	04/01/25	04/13/25	EPA 6020B	
Magnesium	24.9	0.0500	"	"	"	"	"	"	
Sodium	2.67	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/10/25 14:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0613	0.00100	units	1	BID0946	04/16/25	04/16/25	Calculation	

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

Date Sampled: **03/10/25 14:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**SEP02-FL@3'**  
**2503138-10 (Soil)**

**Summit Scientific**

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

% Solids	88.7	%	1	BIC0577	03/11/25	03/11/25	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **03/10/25 14:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.139	0.0100	mmhos/cm	1	BID0052	04/01/25	04/04/25	EPA 120.1	

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

Date Sampled: **03/10/25 14:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.54		pH Units	1	BID0051	04/01/25	04/04/25	EPA 9045D	

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4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**SEP02-DL@3'**  
**2503138-11 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/10/25 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIC0566	03/10/25	03/10/25	EPA 8260B	
<b>Toluene</b>	<b>0.025</b>	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.014</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.075</b>	0.010	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.062</b>	0.0050	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>0.017</b>	0.0050	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.025</b>	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>1.1</b>	0.50	"	"	"	"	"	"	

Date Sampled: **03/10/25 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0464	116 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0390	97.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0412	103 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/10/25 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>100</b>	50	mg/kg	1	BIC0570	03/10/25	03/11/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/10/25 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.51	76.1 %	50-140		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**SEP02-DL@3'**  
**2503138-11 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/10/25 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC1064	03/18/25	04/24/25	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: **03/10/25 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0147	44.2 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0138	41.4 %	40-140		"	"	"	"	

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

Date Sampled: **03/10/25 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC0573	03/11/25	03/11/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/10/25 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**SEP02-DL@3'**  
**2503138-11 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.65	0.200	mg/kg dry	1	BIC0600	03/11/25	03/12/25	EPA 6020B	
Barium	349	0.400	"	"	"	"	"	"	
Cadmium	1.18	0.200	"	"	"	"	"	"	
Copper	17.1	0.400	"	"	"	"	"	"	
Lead	6.31	0.200	"	"	"	"	"	"	
Nickel	5.88	0.400	"	"	"	"	"	"	
Silver	0.0212	0.0200	"	"	"	"	"	"	
Zinc	18.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/10/25 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0608	03/11/25	03/11/25	EPA 7196A	

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

Date Sampled: **03/10/25 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	353	0.0500	mg/L dry	1	BIC0565	03/10/25	03/12/25	EPA 6020B	
Magnesium	63.8	0.0500	"	"	"	"	"	"	
Sodium	6.13	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/10/25 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0789	0.00100	units	1	BIC0748	03/13/25	03/13/25	Calculation	

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

Date Sampled: **03/10/25 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
 4725 Independence St.  
 Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
 Project Number: UWRWE-A4407-ABN  
 Project Manager: Bryce Goldade

**Reported:**  
 04/29/25 11:10

**SEP02-DL@3'**  
**2503138-11 (Soil)**

**Summit Scientific**

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

% Solids	90.1	%	1	BIC0577	03/11/25	03/11/25	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **03/10/25 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.178	0.0100	mmhos/cm	1	BIC0572	03/10/25	03/12/25	EPA 120.1	

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

Date Sampled: **03/10/25 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.49		pH Units	1	BIC0568	03/10/25	03/12/25	EPA 9045D	

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4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

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

#### Batch BIC0566 - EPA 5030 Soil MS

##### Blank (BIC0566-BLK1)

Prepared: 03/10/25 Analyzed: 03/11/25

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0435</i>		<i>"</i>	<i>0.0400</i>		<i>109</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0395</i>		<i>"</i>	<i>0.0400</i>		<i>98.8</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.4</i>	<i>50-150</i>			

##### LCS (BIC0566-BS1)

Prepared: 03/10/25 Analyzed: 03/11/25

Benzene	0.104	0.0020	mg/kg	0.100		104	70-130			
Toluene	0.0992	0.0050	"	0.100		99.2	70-130			
Ethylbenzene	0.0994	0.0050	"	0.100		99.4	70-130			
m,p-Xylene	0.201	0.010	"	0.200		101	70-130			
o-Xylene	0.100	0.0050	"	0.100		100	70-130			
1,2,4-Trimethylbenzene	0.101	0.0050	"	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.0969	0.0050	"	0.100		96.9	70-130			
Naphthalene	0.111	0.0038	"	0.100		111	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0408</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0381</i>		<i>"</i>	<i>0.0400</i>		<i>95.3</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0405</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			

##### Matrix Spike (BIC0566-MS1)

Source: 2503138-05

Prepared: 03/10/25 Analyzed: 03/11/25

Benzene	0.0986	0.0020	mg/kg	0.100	ND	98.6	70-130			
Toluene	0.0952	0.0050	"	0.100	ND	95.2	70-130			
Ethylbenzene	0.0941	0.0050	"	0.100	ND	94.1	70-130			
m,p-Xylene	0.194	0.010	"	0.200	0.0172	88.4	70-130			
o-Xylene	0.0992	0.0050	"	0.100	ND	99.2	70-130			
1,2,4-Trimethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130			
1,3,5-Trimethylbenzene	0.0919	0.0050	"	0.100	ND	91.9	70-130			
Naphthalene	0.104	0.0038	"	0.100	ND	104	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0417</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0388</i>		<i>"</i>	<i>0.0400</i>		<i>97.0</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0410</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>			

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

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

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

**Batch BIC0566 - EPA 5030 Soil MS**

**Matrix Spike Dup (BIC0566-MSD1)**

Source: 2503138-05

Prepared: 03/10/25 Analyzed: 03/11/25

Benzene	0.103	0.0020	mg/kg	0.100	ND	103	70-130	4.81	30	
Toluene	0.0994	0.0050	"	0.100	ND	99.4	70-130	4.28	30	
Ethylbenzene	0.0960	0.0050	"	0.100	ND	96.0	70-130	2.02	30	
m,p-Xylene	0.204	0.010	"	0.200	0.0172	93.4	70-130	5.03	30	
o-Xylene	0.100	0.0050	"	0.100	ND	100	70-130	0.903	30	
1,2,4-Trimethylbenzene	0.113	0.0050	"	0.100	ND	113	70-130	6.03	30	
1,3,5-Trimethylbenzene	0.0932	0.0050	"	0.100	ND	93.2	70-130	1.43	30	
Naphthalene	0.109	0.0038	"	0.100	ND	109	70-130	5.25	30	
Surrogate: 1,2-Dichloroethane-d4	0.0457		"	0.0400		114	50-150			
Surrogate: Toluene-d8	0.0392		"	0.0400		98.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	50-150			

**Batch BIC1123 - EPA 5030 Soil MS**

**Blank (BIC1123-BLK1)**

Prepared: 03/19/25 Analyzed: 04/17/25

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	0.0338		"	0.0400		84.6	50-150			
Surrogate: Toluene-d8	0.0413		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0372		"	0.0400		93.1	50-150			

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

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

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

**Batch BIC1123 - EPA 5030 Soil MS**

**LCS (BIC1123-BS1)**

Prepared: 03/19/25 Analyzed: 04/17/25

Benzene	0.0922	0.0020	mg/kg	0.100		92.2	70-130			
Toluene	0.0935	0.0050	"	0.100		93.5	70-130			
Ethylbenzene	0.0944	0.0050	"	0.100		94.4	70-130			
m,p-Xylene	0.188	0.010	"	0.200		93.9	70-130			
o-Xylene	0.0875	0.0050	"	0.100		87.5	70-130			
1,2,4-Trimethylbenzene	0.0891	0.0050	"	0.100		89.1	70-130			
1,3,5-Trimethylbenzene	0.0892	0.0050	"	0.100		89.2	70-130			
Naphthalene	0.0914	0.0038	"	0.100		91.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0320		"	0.0400		79.9	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		99.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0363		"	0.0400		90.8	50-150			

**Matrix Spike (BIC1123-MS1)**

Source: 2503129-01

Prepared: 03/19/25 Analyzed: 04/17/25

Benzene	0.0841	0.0020	mg/kg	0.100	ND	84.1	70-130			
Toluene	0.0814	0.0050	"	0.100	ND	81.4	70-130			
Ethylbenzene	0.0839	0.0050	"	0.100	ND	83.9	70-130			
m,p-Xylene	0.166	0.010	"	0.200	ND	82.9	70-130			
o-Xylene	0.0774	0.0050	"	0.100	ND	77.4	70-130			
1,2,4-Trimethylbenzene	0.0767	0.0050	"	0.100	ND	76.7	70-130			
1,3,5-Trimethylbenzene	0.0769	0.0050	"	0.100	ND	76.9	70-130			
Naphthalene	0.0781	0.0038	"	0.100	ND	78.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0335		"	0.0400		83.7	50-150			
Surrogate: Toluene-d8	0.0397		"	0.0400		99.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400		95.1	50-150			

**Matrix Spike Dup (BIC1123-MSD1)**

Source: 2503129-01

Prepared: 03/19/25 Analyzed: 04/21/25

Benzene	0.0824	0.0020	mg/kg	0.100	ND	82.4	70-130	2.02	30	
Toluene	0.0851	0.0050	"	0.100	ND	85.1	70-130	4.43	30	
Ethylbenzene	0.0782	0.0050	"	0.100	ND	78.2	70-130	7.07	30	
m,p-Xylene	0.159	0.010	"	0.200	ND	79.3	70-130	4.42	30	
o-Xylene	0.0821	0.0050	"	0.100	ND	82.1	70-130	5.98	30	
1,2,4-Trimethylbenzene	0.0781	0.0050	"	0.100	ND	78.1	70-130	1.78	30	
1,3,5-Trimethylbenzene	0.0753	0.0050	"	0.100	ND	75.3	70-130	2.05	30	
Naphthalene	0.0760	0.0038	"	0.100	ND	76.0	70-130	2.69	30	
Surrogate: 1,2-Dichloroethane-d4	0.0437		"	0.0400		109	50-150			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.8	50-150			

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BIC0570 - EPA 3550A**

**Blank (BIC0570-BLK1)**

Prepared: 03/10/25 Analyzed: 03/11/25

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.3		"	12.5		98.5	50-140				

**LCS (BIC0570-BS1)**

Prepared: 03/10/25 Analyzed: 03/11/25

C10-C28 (DRO)	505	50	mg/kg	500		101	50-140				
Surrogate: <i>o</i> -Terphenyl	13.1		"	12.5		105	50-140				

**Matrix Spike (BIC0570-MS1)**

Source: 2503138-05

Prepared: 03/10/25 Analyzed: 03/11/25

C10-C28 (DRO)	457	50	mg/kg	500	21.3	87.1	50-140				
Surrogate: <i>o</i> -Terphenyl	7.86		"	12.5		62.9	50-140				

**Matrix Spike Dup (BIC0570-MSD1)**

Source: 2503138-05

Prepared: 03/10/25 Analyzed: 03/11/25

C10-C28 (DRO)	461	50	mg/kg	500	21.3	87.9	50-140	0.803	20		
Surrogate: <i>o</i> -Terphenyl	8.38		"	12.5		67.0	50-140				

**Batch BIC1127 - EPA 3550A**

**Blank (BIC1127-BLK1)**

Prepared: 03/19/25 Analyzed: 04/19/25

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.1		"	12.5		96.9	50-140				

**LCS (BIC1127-BS1)**

Prepared: 03/19/25 Analyzed: 04/19/25

C10-C28 (DRO)	477	50	mg/kg	500		95.4	50-140				
Surrogate: <i>o</i> -Terphenyl	10.3		"	12.5		82.3	50-140				

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 4725 Independence St.  
 Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
 Project Number: UWRWE-A4407-ABN  
 Project Manager: Bryce Goldade

**Reported:**  
 04/29/25 11:10

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BIC1127 - EPA 3550A**

<b>Matrix Spike (BIC1127-MS1)</b>		<b>Source: 2503129-01</b>			Prepared: 03/19/25		Analyzed: 04/19/25		
C10-C28 (DRO)	451	50	mg/kg	500	13.1	87.6	50-140		
Surrogate: <i>o</i> -Terphenyl	9.89		"	12.5		79.1	50-140		
<b>Matrix Spike Dup (BIC1127-MSD1)</b>		<b>Source: 2503129-01</b>			Prepared: 03/19/25		Analyzed: 04/19/25		
C10-C28 (DRO)	465	50	mg/kg	500	13.1	90.3	50-140	2.91	20
Surrogate: <i>o</i> -Terphenyl	10.2		"	12.5		81.9	50-140		

Summit Scientific

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Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BIC1064 - EPA 5030 Soil MS**

**Blank (BIC1064-BLK1)**

Prepared: 03/18/25 Analyzed: 04/11/25

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	0.0346		"	0.0333		104	40-140			
Surrogate: Fluoranthene-d10	0.0361		"	0.0333		108	40-140			

**LCS (BIC1064-BS1)**

Prepared: 03/18/25 Analyzed: 04/11/25

Acenaphthene	0.0332	0.00500	mg/kg	0.0333		99.5	40-140			
Anthracene	0.0363	0.00500	"	0.0333		109	40-140			
Benzo (a) anthracene	0.0378	0.00500	"	0.0333		113	40-140			
Benzo (a) pyrene	0.0384	0.00500	"	0.0333		115	40-140			
Benzo (b) fluoranthene	0.0430	0.00500	"	0.0333		129	40-140			
Benzo (k) fluoranthene	0.0404	0.00500	"	0.0333		121	40-140			
Chrysene	0.0346	0.00500	"	0.0333		104	40-140			
Dibenz (a,h) anthracene	0.0195	0.00500	"	0.0333		58.5	40-140			
Fluoranthene	0.0363	0.00500	"	0.0333		109	40-140			
Fluorene	0.0345	0.00500	"	0.0333		103	40-140			
Indeno (1,2,3-cd) pyrene	0.0208	0.00500	"	0.0333		62.5	40-140			
Pyrene	0.0359	0.00500	"	0.0333		108	40-140			
1-Methylnaphthalene	0.0369	0.00500	"	0.0333		111	40-140			
2-Methylnaphthalene	0.0369	0.00500	"	0.0333		111	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0283		"	0.0333		84.9	40-140			
Surrogate: Fluoranthene-d10	0.0304		"	0.0333		91.2	40-140			

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BIC1064 - EPA 5030 Soil MS**

<b>Matrix Spike (BIC1064-MS1)</b>	<b>Source: 2503138-11</b>			<b>Prepared: 03/18/25 Analyzed: 04/11/25</b>							
Acenaphthene	0.0295	0.00500	mg/kg	0.0333	ND	88.6	40-140				
Anthracene	0.0304	0.00500	"	0.0333	ND	91.2	40-140				
Benzo (a) anthracene	0.0324	0.00500	"	0.0333	ND	97.2	40-140				
Benzo (a) pyrene	0.0320	0.00500	"	0.0333	ND	95.9	40-140				
Benzo (b) fluoranthene	0.0361	0.00500	"	0.0333	ND	108	40-140				
Benzo (k) fluoranthene	0.0338	0.00500	"	0.0333	ND	101	40-140				
Chrysene	0.0296	0.00500	"	0.0333	ND	88.8	40-140				
Dibenz (a,h) anthracene	0.0174	0.00500	"	0.0333	ND	52.1	40-140				
Fluoranthene	0.0305	0.00500	"	0.0333	ND	91.5	40-140				
Fluorene	0.0297	0.00500	"	0.0333	ND	89.2	40-140				
Indeno (1,2,3-cd) pyrene	0.0183	0.00500	"	0.0333	ND	54.9	40-140				
Pyrene	0.0304	0.00500	"	0.0333	ND	91.1	40-140				
1-Methylnaphthalene	0.0303	0.00500	"	0.0333	ND	91.0	40-140				
2-Methylnaphthalene	0.0309	0.00500	"	0.0333	ND	92.8	40-140				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0226</i>		<i>"</i>	<i>0.0333</i>		<i>67.9</i>	<i>40-140</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0242</i>		<i>"</i>	<i>0.0333</i>		<i>72.5</i>	<i>40-140</i>				

<b>Matrix Spike Dup (BIC1064-MSD1)</b>	<b>Source: 2503138-11</b>			<b>Prepared: 03/18/25 Analyzed: 04/24/25</b>						
Acenaphthene	0.0172	0.00500	mg/kg	0.0333	ND	51.5	40-140	53.0	30	QR-04
Anthracene	0.0176	0.00500	"	0.0333	ND	52.8	40-140	53.4	30	QR-04
Benzo (a) anthracene	0.0182	0.00500	"	0.0333	ND	54.6	40-140	56.1	30	QR-04
Benzo (a) pyrene	0.0176	0.00500	"	0.0333	ND	52.7	40-140	58.2	30	QR-04
Benzo (b) fluoranthene	0.0195	0.00500	"	0.0333	ND	58.6	40-140	59.6	30	QR-04
Benzo (k) fluoranthene	0.0184	0.00500	"	0.0333	ND	55.3	40-140	59.0	30	QR-04
Chrysene	0.0180	0.00500	"	0.0333	ND	54.1	40-140	48.6	30	QR-04
Dibenz (a,h) anthracene	0.0156	0.00500	"	0.0333	ND	46.7	40-140	11.0	30	
Fluoranthene	0.0175	0.00500	"	0.0333	ND	52.5	40-140	54.1	30	QR-04
Fluorene	0.0184	0.00500	"	0.0333	ND	55.2	40-140	47.1	30	QR-04
Indeno (1,2,3-cd) pyrene	0.0164	0.00500	"	0.0333	ND	49.3	40-140	10.8	30	
Pyrene	0.0218	0.00500	"	0.0333	ND	65.3	40-140	33.0	30	QR-04
1-Methylnaphthalene	0.0181	0.00500	"	0.0333	ND	54.4	40-140	50.3	30	QR-04
2-Methylnaphthalene	0.0186	0.00500	"	0.0333	ND	55.7	40-140	49.9	30	QR-04
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0182</i>		<i>"</i>	<i>0.0333</i>		<i>54.5</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0185</i>		<i>"</i>	<i>0.0333</i>		<i>55.5</i>	<i>40-140</i>			

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BIC1115 - EPA 5030 Soil MS**

**Blank (BIC1115-BLK1)**

Prepared: 03/19/25 Analyzed: 04/05/25

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0156</i>		<i>"</i>	<i>0.0333</i>		<i>46.8</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0216</i>		<i>"</i>	<i>0.0333</i>		<i>64.8</i>	<i>40-140</i>			

**LCS (BIC1115-BS1)**

Prepared: 03/19/25 Analyzed: 04/05/25

Acenaphthene	0.0233	0.00500	mg/kg	0.0333		69.8	40-140			
Anthracene	0.0262	0.00500	"	0.0333		78.5	40-140			
Benzo (a) anthracene	0.0272	0.00500	"	0.0333		81.5	40-140			
Benzo (a) pyrene	0.0265	0.00500	"	0.0333		79.5	40-140			
Benzo (b) fluoranthene	0.0288	0.00500	"	0.0333		86.5	40-140			
Benzo (k) fluoranthene	0.0291	0.00500	"	0.0333		87.2	40-140			
Chrysene	0.0261	0.00500	"	0.0333		78.3	40-140			
Dibenz (a,h) anthracene	0.0174	0.00500	"	0.0333		52.1	40-140			
Fluoranthene	0.0247	0.00500	"	0.0333		74.1	40-140			
Fluorene	0.0243	0.00500	"	0.0333		73.0	40-140			
Indeno (1,2,3-cd) pyrene	0.0200	0.00500	"	0.0333		59.9	40-140			
Pyrene	0.0290	0.00500	"	0.0333		86.9	40-140			
1-Methylnaphthalene	0.0185	0.00500	"	0.0333		55.4	40-140			
2-Methylnaphthalene	0.0183	0.00500	"	0.0333		54.8	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0145</i>		<i>"</i>	<i>0.0333</i>		<i>43.6</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0191</i>		<i>"</i>	<i>0.0333</i>		<i>57.4</i>	<i>40-140</i>			

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BIC1115 - EPA 5030 Soil MS**

<b>Matrix Spike (BIC1115-MS1)</b>		<b>Source: 2503138-01</b>			Prepared: 03/19/25		Analyzed: 04/05/25	
Acenaphthene	0.0232	0.00500	mg/kg	0.0333	ND	69.7	40-140	
Anthracene	0.0249	0.00500	"	0.0333	ND	74.8	40-140	
Benzo (a) anthracene	0.0257	0.00500	"	0.0333	ND	77.0	40-140	
Benzo (a) pyrene	0.0240	0.00500	"	0.0333	ND	72.0	40-140	
Benzo (b) fluoranthene	0.0251	0.00500	"	0.0333	ND	75.2	40-140	
Benzo (k) fluoranthene	0.0230	0.00500	"	0.0333	ND	69.0	40-140	
Chrysene	0.0251	0.00500	"	0.0333	ND	75.3	40-140	
Dibenz (a,h) anthracene	0.0145	0.00500	"	0.0333	ND	43.6	40-140	
Fluoranthene	0.0244	0.00500	"	0.0333	ND	73.1	40-140	
Fluorene	0.0255	0.00500	"	0.0333	ND	76.6	40-140	
Indeno (1,2,3-cd) pyrene	0.0169	0.00500	"	0.0333	ND	50.6	40-140	
Pyrene	0.0289	0.00500	"	0.0333	ND	86.8	40-140	
1-Methylnaphthalene	0.0260	0.00500	"	0.0333	ND	78.0	40-140	
2-Methylnaphthalene	0.0264	0.00500	"	0.0333	ND	79.1	40-140	
Surrogate: 2-Methylnaphthalene-d10	0.0168		"	0.0333		50.3	40-140	
Surrogate: Fluoranthene-d10	0.0175		"	0.0333		52.5	40-140	

<b>Matrix Spike Dup (BIC1115-MSD1)</b>		<b>Source: 2503138-01</b>			Prepared: 03/19/25		Analyzed: 04/05/25	
Acenaphthene	0.0237	0.00500	mg/kg	0.0333	ND	71.1	40-140	1.89 30
Anthracene	0.0252	0.00500	"	0.0333	ND	75.5	40-140	0.854 30
Benzo (a) anthracene	0.0264	0.00500	"	0.0333	ND	79.1	40-140	2.65 30
Benzo (a) pyrene	0.0253	0.00500	"	0.0333	ND	75.9	40-140	5.16 30
Benzo (b) fluoranthene	0.0267	0.00500	"	0.0333	ND	80.2	40-140	6.35 30
Benzo (k) fluoranthene	0.0250	0.00500	"	0.0333	ND	75.1	40-140	8.46 30
Chrysene	0.0249	0.00500	"	0.0333	ND	74.7	40-140	0.892 30
Dibenz (a,h) anthracene	0.0176	0.00500	"	0.0333	ND	52.9	40-140	19.3 30
Fluoranthene	0.0249	0.00500	"	0.0333	ND	74.6	40-140	2.02 30
Fluorene	0.0246	0.00500	"	0.0333	ND	73.8	40-140	3.72 30
Indeno (1,2,3-cd) pyrene	0.0191	0.00500	"	0.0333	ND	57.3	40-140	12.5 30
Pyrene	0.0280	0.00500	"	0.0333	ND	83.9	40-140	3.42 30
1-Methylnaphthalene	0.0226	0.00500	"	0.0333	ND	67.7	40-140	14.1 30
2-Methylnaphthalene	0.0225	0.00500	"	0.0333	ND	67.4	40-140	15.9 30
Surrogate: 2-Methylnaphthalene-d10	0.0169		"	0.0333		50.7	40-140	
Surrogate: Fluoranthene-d10	0.0186		"	0.0333		55.8	40-140	

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Tasman Geosciences  
 4725 Independence St.  
 Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
 Project Number: UWRWE-A4407-ABN  
 Project Manager: Bryce Goldade

**Reported:**  
 04/29/25 11:10

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

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

**Batch BIC0573 - EPA 3050B**

**Blank (BIC0573-BLK1)**

Prepared & Analyzed: 03/11/25

Boron ND 2.00 mg/L

**LCS (BIC0573-BS1)**

Prepared & Analyzed: 03/11/25

Boron 4.49 2.00 mg/L 5.00 89.8 80-120

**Duplicate (BIC0573-DUP1)**

Source: 2503134-01

Prepared & Analyzed: 03/11/25

Boron ND 2.00 mg/L ND 20

**Matrix Spike (BIC0573-MS1)**

Source: 2503134-01

Prepared & Analyzed: 03/11/25

Boron 4.83 2.00 mg/L 5.02 ND 96.2 75-125

**Matrix Spike Dup (BIC0573-MSD1)**

Source: 2503134-01

Prepared & Analyzed: 03/11/25

Boron 4.64 2.00 mg/L 5.02 ND 92.4 75-125 4.00 25

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BIC0600 - EPA 3050B**

**Blank (BIC0600-BLK1)**

Prepared & Analyzed: 03/11/25

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 (BIC0600-BS1)**

Prepared & Analyzed: 03/11/25

Arsenic	36.2	0.200	mg/kg wet	38.8	93.3	80-120
Barium	37.6	0.400	"	38.8	97.0	80-120
Cadmium	1.92	0.200	"	1.94	99.2	80-120
Copper	39.9	0.400	"	38.8	103	80-120
Lead	18.8	0.200	"	19.4	96.8	80-120
Nickel	39.2	0.400	"	38.8	101	80-120
Silver	1.91	0.0200	"	1.94	98.3	80-120
Zinc	39.3	0.400	"	38.8	101	80-120
Selenium	3.52	0.260	"	3.88	90.9	80-120

**Duplicate (BIC0600-DUP1)**

Source: 2503130-02

Prepared & Analyzed: 03/11/25

Arsenic	1.41	0.200	mg/kg dry	0.947	39.5	20	QR-04
Barium	63.8	0.400	"	169	90.4	20	QR-04
Cadmium	0.225	0.200	"	0.330	37.7	20	QR-04
Copper	3.65	0.400	"	5.25	36.0	20	QR-04
Lead	4.91	0.200	"	3.04	47.1	20	QR-04
Nickel	3.66	0.400	"	1.21	101	20	QR-04
Silver	0.0315	0.0200	"	0.0240	26.9	20	QR-04
Zinc	16.6	0.400	"	1.79	161	20	QR-04
Selenium	ND	0.260	"	ND		20	

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BIC0600 - EPA 3050B**

**Matrix Spike (BIC0600-MS1)**

Source: 2503130-02

Prepared & Analyzed: 03/11/25

Arsenic	38.7	0.200	mg/kg dry	40.8	0.947	92.5	75-125			
Barium	108	0.400	"	40.8	169	NR	75-125			QM-05
Cadmium	2.22	0.200	"	2.04	0.330	92.4	75-125			
Copper	30.9	0.400	"	40.8	5.25	62.8	75-125			QM-05
Lead	24.5	0.200	"	20.4	3.04	105	75-125			
Nickel	31.0	0.400	"	40.8	1.21	73.0	75-125			QM-05
Silver	1.93	0.0200	"	2.04	0.0240	93.6	75-125			
Zinc	46.8	0.400	"	40.8	1.79	110	75-125			
Selenium	3.15	0.260	"	4.08	ND	77.1	75-125			

**Matrix Spike Dup (BIC0600-MSD1)**

Source: 2503130-02

Prepared & Analyzed: 03/11/25

Arsenic	41.2	0.200	mg/kg dry	41.8	0.947	96.2	75-125	6.20	25	
Barium	102	0.400	"	41.8	169	NR	75-125	5.24	25	QM-05
Cadmium	2.32	0.200	"	2.09	0.330	95.4	75-125	4.72	25	
Copper	34.3	0.400	"	41.8	5.25	69.4	75-125	10.3	25	QM-05
Lead	25.4	0.200	"	20.9	3.04	107	75-125	3.80	25	
Nickel	34.2	0.400	"	41.8	1.21	79.0	75-125	9.89	25	QM-05
Silver	2.03	0.0200	"	2.09	0.0240	96.1	75-125	4.98	25	
Zinc	48.4	0.400	"	41.8	1.79	111	75-125	3.39	25	
Selenium	3.53	0.260	"	4.18	ND	84.4	75-125	11.5	25	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BIC0608 - 3060A Mod**

**Blank (BIC0608-BLK1)**

Prepared & Analyzed: 03/11/25

Chromium, Hexavalent      ND      0.30 mg/kg wet

**LCS (BIC0608-BS1)**

Prepared & Analyzed: 03/11/25

Chromium, Hexavalent      26.4      0.30 mg/kg wet      25.3      104      80-120

**Duplicate (BIC0608-DUP1)**

**Source: 2503131-01**

Prepared & Analyzed: 03/11/25

Chromium, Hexavalent      ND      0.30 mg/kg dry      ND      20

**Matrix Spike (BIC0608-MS1)**

**Source: 2503131-01**

Prepared & Analyzed: 03/11/25

**QM-05**

Chromium, Hexavalent      18.4      0.30 mg/kg dry      27.1      ND      68.0      75-125

**Matrix Spike Dup (BIC0608-MSD1)**

**Source: 2503131-01**

Prepared & Analyzed: 03/11/25

Chromium, Hexavalent      21.7      0.30 mg/kg dry      28.2      ND      77.0      75-125      16.3      20

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

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

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

**Batch BIC0565 - General Preparation**

**Blank (BIC0565-BLK1)**

Prepared: 03/10/25 Analyzed: 03/12/25

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

**LCS (BIC0565-BS1)**

Prepared: 03/10/25 Analyzed: 03/12/25

Calcium	5.37	0.0500	mg/L wet	5.00		107	70-130			
Magnesium	5.04	0.0500	"	5.00		101	70-130			
Sodium	5.01	0.0500	"	5.00		100	70-130			

**Batch BID0053 - General Preparation**

**Blank (BID0053-BLK1)**

Prepared: 04/01/25 Analyzed: 04/15/25

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

**LCS (BID0053-BS1)**

Prepared: 04/01/25 Analyzed: 04/13/25

Calcium	5.45	0.0500	mg/L wet	5.00		109	70-130			
Magnesium	5.00	0.0500	"	5.00		100	70-130			
Sodium	5.03	0.0500	"	5.00		101	70-130			

Summit Scientific

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Tasman Geosciences  
 4725 Independence St.  
 Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery

Project Number: UWRWE-A4407-ABN  
 Project Manager: Bryce Goldade

**Reported:**  
 04/29/25 11:10

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

**Summit Scientific**

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

**Batch BIC0577 - General Preparation**

**Duplicate (BIC0577-DUP1)**

**Source: 2503130-02**

Prepared & Analyzed: 03/11/25

% Solids	95.7		%		95.6			0.0327	20	
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Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

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

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

**Batch BIC0572 - General Preparation**

<b>Blank (BIC0572-BLK1)</b>											
Prepared: 03/10/25 Analyzed: 03/12/25											
Specific Conductance (EC)	ND	0.0100	mmhos/cm								
<b>LCS (BIC0572-BS1)</b>											
Prepared: 03/10/25 Analyzed: 03/12/25											
Specific Conductance (EC)	1.39	0.0100	mmhos/cm	1.41	98.9	95-105					
<b>Duplicate (BIC0572-DUP1)</b>											
Source: 2503130-02 Prepared: 03/10/25 Analyzed: 03/12/25											
Specific Conductance (EC)	0.0414	0.0100	mmhos/cm		0.0404			2.51	20		

**Batch BID0052 - General Preparation**

<b>Blank (BID0052-BLK1)</b>											
Prepared: 04/01/25 Analyzed: 04/04/25											
Specific Conductance (EC)	ND	0.0100	mmhos/cm								
<b>LCS (BID0052-BS1)</b>											
Prepared: 04/01/25 Analyzed: 04/04/25											
Specific Conductance (EC)	0.154	0.0100	mmhos/cm	0.150	103	95-105					
<b>Duplicate (BID0052-DUP1)</b>											
Source: 2503138-01 Prepared: 04/01/25 Analyzed: 04/04/25											
Specific Conductance (EC)	1.32	0.0100	mmhos/cm		1.33			0.904	20		

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery  
Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

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

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

**Batch BIC0568 - General Preparation**

<b>LCS (BIC0568-BS1)</b>		Prepared: 03/10/25 Analyzed: 03/12/25								
pH	9.13		pH Units	9.18		99.5	95-105			
<b>Duplicate (BIC0568-DUP1)</b>		<b>Source: 2503130-02</b>		Prepared: 03/10/25 Analyzed: 03/12/25						
pH	8.10		pH Units		8.14			0.504	20	

**Batch BID0051 - General Preparation**

<b>LCS (BID0051-BS1)</b>		Prepared: 04/01/25 Analyzed: 04/04/25								
pH	9.21		pH Units	9.18		100	95-105			
<b>Duplicate (BID0051-DUP1)</b>		<b>Source: 2503138-01</b>		Prepared: 04/01/25 Analyzed: 04/04/25						
pH	7.61		pH Units		7.60			0.131	20	

Summit Scientific

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4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Bashor PC AA 9-14 Tank Battery

Project Number: UWRWE-A4407-ABN  
Project Manager: Bryce Goldade

**Reported:**  
04/29/25 11:10

### Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values. Only applies to source/DUP and MS/MSD pairs.
- 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.
- 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