

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 21, 2025

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

RE: Noble - Reistad 1 Tank Battery

Work Order #2501138

Enclosed are the results of analyses for samples received by Summit Scientific on 01/13/25 17:55. 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 Ben Shrewsbury
Laboratory Manager



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

Project: Noble - Reistad 1 Tank Battery

Project Number: [none]
Project Manager: Daniel Simpson

Reported:
01/21/25 12:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH06@11-12'	2501138-01	Soil	01/13/25 14:27	01/13/25 17:55
BH06@12-13'	2501138-02	Soil	01/13/25 14:35	01/13/25 17:55

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.

Client: Noble/Tasman		Send Data To: Project Manager: Daniel Simpson		Send Invoice To: Company: <i>Noble Energy, Inc.</i>	
Address: 6855 W. 119th Ave.		E-Mail: tas-chevron-5@tasman-geo.com		Project Name/Location: <i>Reistad 1 Tank Battery</i>	
City/State/Zip: Broomfield/CO/ 80020		rbueuf27@chevron.com, <i>danpeterson@chevron.com</i>		AFE#:	
Phone: 303-487-1228		Project Name: <i>Reistad 1 Tank Battery</i>		PO/Billing Codes:	
Sampler Name: McKenzie Reynolds		Project Number:		Contact: <i>Dan Peterson</i>	

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	<i>BH06@11-12'</i>	<i>1/13/25</i>	<i>1427</i>	<i>2</i>			<i>X</i>			<i>X</i>				<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	SAR, EC, pH by saturated paste	
2	<i>BH06@12-13'</i>	<i>1</i>	<i>1435</i>	<i>1</i>			<i>+</i>			<i>+</i>				<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>			
3																						
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Relinquished by: <i>[Signature]</i>	Date/Time: <i>1/13/2025 1430</i>	Received by: Tasman Lock Box	Date/Time: <i>1/13/2025 1430</i>	TAT Business Days	Field DO	Notes:
Relinquished by: <i>Tasman Lock Box</i>	Date/Time: <i>1/13/25 1755</i>	Received by: <i>[Signature]</i>	Date/Time: <i>1/13/25 1755</i>	Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <i>5.8</i>	Corrected Temperature: <i>6</i>	IR gun #:	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2501138

Client: NOA/Tasman Client Project ID: Reistad / Fank Battery

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

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

Temp (°C) 5.8 Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>on ice</u>
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Same day</u>
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water - is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column - HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

AS
Custodian Printed Name

1/13/25
Date/Time

5000 0 0



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

Project: Noble - Reistad 1 Tank Battery

Project Number: [none]
Project Manager: Daniel Simpson

Reported:
01/21/25 12:11

BH06@11-12'
2501138-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/13/25 14:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BIA0552	01/13/25	01/14/25	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	0.22	0.0050		"	"	"	"	"	"	
Xylenes (total)	1.0	0.010		"	"	"	"	"	"	E
1,2,4-Trimethylbenzene	0.91	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.58	0.0050		"	"	"	"	"	"	E
Naphthalene	0.039	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	42	0.50		"	"	"	"	"	"	

Date Sampled: **01/13/25 14:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0308	77.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0391	97.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0598	150 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/13/25 14:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	160	50		mg/kg	1	BIA0550	01/13/25	01/14/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/13/25 14:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.34	74.8 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PAH by EPA Method 8270D SIM

Date Sampled: **01/13/25 14:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA0566	01/14/25	01/17/25	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	0.0103	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0292	0.00500	"	"	"	"	"	"	

Date Sampled: **01/13/25 14:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0206	61.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0199	59.6 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/13/25 14:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA0611	01/14/25	01/15/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/13/25 14:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: [none]
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BH06@11-12'
2501138-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.94	0.200	mg/kg dry	1	BIA0582	01/14/25	01/14/25	EPA 6020B	
Barium	11.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.34	0.400	"	"	"	"	"	"	
Lead	7.50	0.200	"	"	"	"	"	"	
Nickel	5.34	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	37.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/13/25 14:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0596	01/14/25	01/14/25	EPA 7196A	

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

Date Sampled: **01/13/25 14:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	14.0	0.0500	mg/L dry	1	BIA0553	01/13/25	01/14/25	EPA 6020B	
Magnesium	5.62	0.0500	"	"	"	"	"	"	
Sodium	64.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/13/25 14:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.69	0.00100	units	1	BIA0753	01/16/25	01/16/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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2501138-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/13/25 14:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	88.8			%	1	BIA0588	01/14/25	01/14/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/13/25 14:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.394	0.0100		mmhos/cm	1	BIA0555	01/13/25	01/14/25	EPA 120.1	

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

Date Sampled: **01/13/25 14:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.26			pH Units	1	BIA0554	01/13/25	01/14/25	EPA 9045D	

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BH06@12-13'
2501138-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/13/25 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIA0552	01/13/25	01/14/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	2.7	0.50	"	100	"	"	01/14/25	"	
Xylenes (total)	28	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	19	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	12	0.50	"	"	"	"	"	"	
Naphthalene	0.18	0.0038	"	1	"	"	01/14/25	"	
Gasoline Range Hydrocarbons	600	50	"	100	"	"	01/14/25	"	

Date Sampled: **01/13/25 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0306	76.6 %	50-150	"	"	"	01/14/25	"	
Surrogate: Toluene-d8	0.0405	101 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0639	160 %	50-150	"	"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/13/25 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	990	50	mg/kg	1	BIA0550	01/13/25	01/14/25	EPA 8015M	
C28-C36 (ORO)	97	50	"	"	"	"	"	"	

Date Sampled: **01/13/25 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.5	92.3 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

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BH06@12-13'
2501138-02 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **01/13/25 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA0566	01/14/25	01/17/25	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	0.262	0.00500	"	"	"	"	"	"	E
2-Methylnaphthalene	0.656	0.00500	"	"	"	"	"	"	E

Date Sampled: **01/13/25 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0426	128 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0216	64.7 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/13/25 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA0611	01/14/25	01/15/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/13/25 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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BH06@12-13'
2501138-02 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.55	0.200	mg/kg dry	1	BIA0582	01/14/25	01/15/25	EPA 6020B
Barium	12.2	0.400	"	"	"	"	"	"
Cadmium	0.278	0.200	"	"	"	"	"	"
Copper	4.13	0.400	"	"	"	"	"	"
Lead	8.11	0.200	"	"	"	"	"	"
Nickel	6.86	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	24.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/13/25 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0596	01/14/25	01/14/25	EPA 7196A	

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

Date Sampled: **01/13/25 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	12.8	0.0500	mg/L dry	1	BIA0553	01/13/25	01/14/25	EPA 6020B	
Magnesium	4.65	0.0500	"	"	"	"	"	"	
Sodium	51.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/13/25 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.11	0.00100	units	1	BIA0753	01/16/25	01/16/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project Number: [none]
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BH06@12-13'
2501138-02 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/13/25 14:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	87.8			%	1	BIA0588	01/14/25	01/14/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/13/25 14:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.324	0.0100		mmhos/cm	1	BIA0555	01/13/25	01/14/25	EPA 120.1	

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

Date Sampled: **01/13/25 14:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.07			pH Units	1	BIA0554	01/13/25	01/14/25	EPA 9045D	

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Reported:
01/21/25 12:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BIA0552 - EPA 5030 Soil MS

Blank (BIA0552-BLK1)

Prepared: 01/13/25 Analyzed: 01/14/25

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	0.0342		"	0.0400		85.4	50-150				
Surrogate: Toluene-d8	0.0407		"	0.0400		102	50-150				
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.7	50-150				

LCS (BIA0552-BS1)

Prepared: 01/13/25 Analyzed: 01/14/25

Benzene	0.115	0.0020	mg/kg	0.100		115	70-130				
Toluene	0.112	0.0050	"	0.100		112	70-130				
Ethylbenzene	0.103	0.0050	"	0.100		103	70-130				
m,p-Xylene	0.203	0.010	"	0.200		102	70-130				
o-Xylene	0.100	0.0050	"	0.100		100	70-130				
1,2,4-Trimethylbenzene	0.0951	0.0050	"	0.100		95.1	70-130				
1,3,5-Trimethylbenzene	0.0945	0.0050	"	0.100		94.5	70-130				
Naphthalene	0.0852	0.0038	"	0.100		85.2	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0328		"	0.0400		82.0	50-150				
Surrogate: Toluene-d8	0.0397		"	0.0400		99.2	50-150				
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.8	50-150				

Matrix Spike (BIA0552-MS1)

Source: 2501137-01

Prepared: 01/13/25 Analyzed: 01/14/25

Benzene	0.0987	0.0020	mg/kg	0.100	ND	98.7	70-130				
Toluene	0.0960	0.0050	"	0.100	ND	96.0	70-130				
Ethylbenzene	0.0860	0.0050	"	0.100	ND	86.0	70-130				
m,p-Xylene	0.169	0.010	"	0.200	ND	84.5	70-130				
o-Xylene	0.0842	0.0050	"	0.100	ND	84.2	70-130				
1,2,4-Trimethylbenzene	0.0776	0.0050	"	0.100	ND	77.6	70-130				
1,3,5-Trimethylbenzene	0.0770	0.0050	"	0.100	ND	77.0	70-130				
Naphthalene	0.0715	0.0038	"	0.100	ND	71.5	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0363		"	0.0400		90.7	50-150				
Surrogate: Toluene-d8	0.0407		"	0.0400		102	50-150				
Surrogate: 4-Bromofluorobenzene	0.0407		"	0.0400		102	50-150				

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Project: Noble - Reistad 1 Tank Battery

Project Number: [none]
Project Manager: Daniel Simpson

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01/21/25 12:11

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 BIA0552 - EPA 5030 Soil MS

Matrix Spike Dup (BIA0552-MSD1)	Source: 2501137-01			Prepared: 01/13/25 Analyzed: 01/14/25						
Benzene	0.110	0.0020	mg/kg	0.100	ND	110	70-130	10.6	30	
Toluene	0.107	0.0050	"	0.100	ND	107	70-130	10.7	30	
Ethylbenzene	0.0973	0.0050	"	0.100	ND	97.3	70-130	12.3	30	
m,p-Xylene	0.191	0.010	"	0.200	ND	95.5	70-130	12.2	30	
o-Xylene	0.0937	0.0050	"	0.100	ND	93.7	70-130	10.6	30	
1,2,4-Trimethylbenzene	0.0880	0.0050	"	0.100	ND	88.0	70-130	12.5	30	
1,3,5-Trimethylbenzene	0.0878	0.0050	"	0.100	ND	87.8	70-130	13.2	30	
Naphthalene	0.0751	0.0038	"	0.100	ND	75.1	70-130	4.91	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0341</i>		<i>"</i>	<i>0.0400</i>		<i>85.4</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0404</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.6</i>	<i>50-150</i>			

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Project Number: [none]
Project Manager: Daniel Simpson

Reported:
01/21/25 12:11

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 BIA0550 - EPA 3550A

Blank (BIA0550-BLK1)

Prepared: 01/13/25 Analyzed: 01/14/25

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.7		"	12.5	101	30-150					

LCS (BIA0550-BS1)

Prepared: 01/13/25 Analyzed: 01/14/25

C10-C28 (DRO)	595	50	mg/kg	500	119	70-130					
Surrogate: <i>o</i> -Terphenyl	12.7		"	12.5	101	30-150					

Matrix Spike (BIA0550-MS1)

Source: 2501137-01

Prepared: 01/13/25 Analyzed: 01/14/25

C10-C28 (DRO)	569	50	mg/kg	500	26.3	109	70-130				
Surrogate: <i>o</i> -Terphenyl	9.43		"	12.5	75.4	30-150					

Matrix Spike Dup (BIA0550-MSD1)

Source: 2501137-01

Prepared: 01/13/25 Analyzed: 01/14/25

C10-C28 (DRO)	589	50	mg/kg	500	26.3	113	70-130	3.38	20		
Surrogate: <i>o</i> -Terphenyl	8.62		"	12.5	68.9	30-150					

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Project Manager: Daniel Simpson

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PAH by EPA Method 8270D SIM - Quality Control

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

Batch BIA0566 - EPA 5030 Soil MS

Blank (BIA0566-BLK1)

Prepared: 01/14/25 Analyzed: 01/16/25

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	0.0249		"	0.0333		74.6	40-140			
Surrogate: Fluoranthene-d10	0.0257		"	0.0333		77.0	40-140			

LCS (BIA0566-BS1)

Prepared: 01/14/25 Analyzed: 01/16/25

Acenaphthene	0.0170	0.00500	mg/kg	0.0333		51.1	40-140			
Anthracene	0.0172	0.00500	"	0.0333		51.5	40-140			
Benzo (a) anthracene	0.0195	0.00500	"	0.0333		58.5	40-140			
Benzo (a) pyrene	0.0163	0.00500	"	0.0333		49.0	40-140			
Benzo (b) fluoranthene	0.0163	0.00500	"	0.0333		48.9	40-140			
Benzo (k) fluoranthene	0.0163	0.00500	"	0.0333		48.9	40-140			
Chrysene	0.0182	0.00500	"	0.0333		54.7	40-140			
Dibenz (a,h) anthracene	0.0175	0.00500	"	0.0333		52.4	40-140			
Fluoranthene	0.0167	0.00500	"	0.0333		50.2	40-140			
Fluorene	0.0163	0.00500	"	0.0333		49.0	40-140			
Indeno (1,2,3-cd) pyrene	0.0192	0.00500	"	0.0333		57.7	40-140			
Pyrene	0.0168	0.00500	"	0.0333		50.6	40-140			
1-Methylnaphthalene	0.0196	0.00500	"	0.0333		58.7	40-140			
2-Methylnaphthalene	0.0214	0.00500	"	0.0333		64.2	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0189		"	0.0333		56.6	40-140			
Surrogate: Fluoranthene-d10	0.0178		"	0.0333		53.5	40-140			

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Project: Noble - Reistad 1 Tank Battery

Project Number: [none]
Project Manager: Daniel Simpson

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PAH by EPA Method 8270D SIM - Quality Control

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

Batch BIA0566 - EPA 5030 Soil MS

Matrix Spike (BIA0566-MS1)	Source: 2501069-01			Prepared: 01/14/25 Analyzed: 01/16/25						
Acenaphthene	0.0160	0.00500	mg/kg	0.0333	ND	48.0	40-140			
Anthracene	0.0161	0.00500	"	0.0333	ND	48.4	40-140			
Benzo (a) anthracene	0.0187	0.00500	"	0.0333	ND	56.0	40-140			
Benzo (a) pyrene	0.0156	0.00500	"	0.0333	ND	46.9	40-140			
Benzo (b) fluoranthene	0.0159	0.00500	"	0.0333	ND	47.7	40-140			
Benzo (k) fluoranthene	0.0156	0.00500	"	0.0333	ND	46.7	40-140			
Chrysene	0.0170	0.00500	"	0.0333	ND	51.0	40-140			
Dibenz (a,h) anthracene	0.0171	0.00500	"	0.0333	ND	51.3	40-140			
Fluoranthene	0.0156	0.00500	"	0.0333	ND	46.8	40-140			
Fluorene	0.0162	0.00500	"	0.0333	ND	48.6	40-140			
Indeno (1,2,3-cd) pyrene	0.0192	0.00500	"	0.0333	ND	57.6	40-140			
Pyrene	0.0170	0.00500	"	0.0333	ND	51.0	40-140			
1-Methylnaphthalene	0.0171	0.00500	"	0.0333	ND	51.4	40-140			
2-Methylnaphthalene	0.0183	0.00500	"	0.0333	ND	55.0	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0169</i>		<i>"</i>	<i>0.0333</i>		<i>50.7</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0165</i>		<i>"</i>	<i>0.0333</i>		<i>49.5</i>	<i>40-140</i>			

Matrix Spike Dup (BIA0566-MSD1)	Source: 2501069-01			Prepared: 01/14/25 Analyzed: 01/16/25						
Acenaphthene	0.0199	0.00500	mg/kg	0.0333	ND	59.6	40-140	21.7	30	
Anthracene	0.0194	0.00500	"	0.0333	ND	58.3	40-140	18.5	30	
Benzo (a) anthracene	0.0224	0.00500	"	0.0333	ND	67.1	40-140	18.1	30	
Benzo (a) pyrene	0.0186	0.00500	"	0.0333	ND	55.8	40-140	17.3	30	
Benzo (b) fluoranthene	0.0193	0.00500	"	0.0333	ND	57.9	40-140	19.3	30	
Benzo (k) fluoranthene	0.0181	0.00500	"	0.0333	ND	54.4	40-140	15.1	30	
Chrysene	0.0202	0.00500	"	0.0333	ND	60.7	40-140	17.2	30	
Dibenz (a,h) anthracene	0.0199	0.00500	"	0.0333	ND	59.7	40-140	15.0	30	
Fluoranthene	0.0185	0.00500	"	0.0333	ND	55.4	40-140	16.7	30	
Fluorene	0.0205	0.00500	"	0.0333	ND	61.5	40-140	23.5	30	
Indeno (1,2,3-cd) pyrene	0.0231	0.00500	"	0.0333	ND	69.3	40-140	18.5	30	
Pyrene	0.0200	0.00500	"	0.0333	ND	59.9	40-140	16.0	30	
1-Methylnaphthalene	0.0209	0.00500	"	0.0333	ND	62.6	40-140	19.7	30	
2-Methylnaphthalene	0.0220	0.00500	"	0.0333	ND	65.9	40-140	18.0	30	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0200</i>		<i>"</i>	<i>0.0333</i>		<i>60.1</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0200</i>		<i>"</i>	<i>0.0333</i>		<i>60.0</i>	<i>40-140</i>			

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Tasman Geosciences
6855 W. 119th Ave.
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Project: Noble - Reistad 1 Tank Battery

Project Number: [none]
Project Manager: Daniel Simpson

Reported:
01/21/25 12:11

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

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

Batch BIA0611 - EPA 3050B

Blank (BIA0611-BLK1)

Prepared: 01/14/25 Analyzed: 01/15/25

Boron ND 2.00 mg/L

LCS (BIA0611-BS1)

Prepared: 01/14/25 Analyzed: 01/15/25

Boron 5.03 2.00 mg/L 5.00 101 80-120

Duplicate (BIA0611-DUP1)

Source: 2501135-01

Prepared: 01/14/25 Analyzed: 01/15/25

Boron 0.159 2.00 mg/L 0.138 14.2 20

Matrix Spike (BIA0611-MS1)

Source: 2501135-01

Prepared: 01/14/25 Analyzed: 01/15/25

Boron 4.97 2.00 mg/L 5.00 0.138 96.6 75-125

Matrix Spike Dup (BIA0611-MSD1)

Source: 2501135-01

Prepared: 01/14/25 Analyzed: 01/15/25

Boron 4.88 2.00 mg/L 5.00 0.138 94.8 75-125 1.80 25

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Broomfield CO, 80020

Project: Noble - Reistad 1 Tank Battery

Project Number: [none]
Project Manager: Daniel Simpson

Reported:
01/21/25 12:11

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIA0582 - EPA 3050B

Blank (BIA0582-BLK1)

Prepared & Analyzed: 01/14/25

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 (BIA0582-BS1)

Prepared & Analyzed: 01/14/25

Arsenic	37.8	0.200	mg/kg wet	39.7	95.4	80-120
Barium	38.0	0.400	"	39.7	95.7	80-120
Cadmium	1.88	0.200	"	1.98	94.9	80-120
Copper	40.6	0.400	"	39.7	102	80-120
Lead	18.7	0.200	"	19.8	94.1	80-120
Nickel	40.3	0.400	"	39.7	101	80-120
Silver	1.90	0.0200	"	1.98	95.6	80-120
Zinc	40.1	0.400	"	39.7	101	80-120
Selenium	3.95	0.260	"	3.97	99.6	80-120

Duplicate (BIA0582-DUP1)

Source: 2501135-01

Prepared & Analyzed: 01/14/25

Arsenic	1.63	0.200	mg/kg dry	1.69	3.56	20
Barium	28.6	0.400	"	29.8	4.17	20
Cadmium	0.0978	0.200	"	0.0891	9.33	20
Copper	2.65	0.400	"	2.54	4.12	20
Lead	3.02	0.200	"	3.89	25.3	20
Nickel	2.90	0.400	"	2.75	5.36	20
Silver	0.0143	0.0200	"	0.0148	3.41	20
Zinc	10.9	0.400	"	10.4	4.46	20
Selenium	ND	0.260	"	ND		20

QR-04

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Project: Noble - Reistad 1 Tank Battery

Project Number: [none]
Project Manager: Daniel Simpson

Reported:
01/21/25 12:11

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 BIA0582 - EPA 3050B

Matrix Spike (BIA0582-MS1)

Source: 2501135-01

Prepared & Analyzed: 01/14/25

Arsenic	41.1	0.200	mg/kg dry	41.9	1.69	94.1	75-125			
Barium	64.1	0.400	"	41.9	29.8	81.9	75-125			
Cadmium	2.17	0.200	"	2.09	0.0891	99.2	75-125			
Copper	35.6	0.400	"	41.9	2.54	78.9	75-125			
Lead	22.8	0.200	"	20.9	3.89	90.2	75-125			
Nickel	35.8	0.400	"	41.9	2.75	79.0	75-125			
Silver	2.02	0.0200	"	2.09	0.0148	95.8	75-125			
Zinc	43.6	0.400	"	41.9	10.4	79.4	75-125			
Selenium	3.70	0.260	"	4.19	ND	88.4	75-125			

Matrix Spike Dup (BIA0582-MSD1)

Source: 2501135-01

Prepared & Analyzed: 01/14/25

Arsenic	39.9	0.200	mg/kg dry	41.5	1.69	92.0	75-125	3.02	25
Barium	63.0	0.400	"	41.5	29.8	79.8	75-125	1.85	25
Cadmium	2.12	0.200	"	2.08	0.0891	97.8	75-125	2.15	25
Copper	35.4	0.400	"	41.5	2.54	79.0	75-125	0.557	25
Lead	22.4	0.200	"	20.8	3.89	89.1	75-125	1.70	25
Nickel	35.6	0.400	"	41.5	2.75	79.0	75-125	0.755	25
Silver	1.96	0.0200	"	2.08	0.0148	93.9	75-125	2.79	25
Zinc	43.3	0.400	"	41.5	10.4	79.1	75-125	0.869	25
Selenium	3.65	0.260	"	4.15	ND	88.0	75-125	1.28	25

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Project: Noble - Reistad 1 Tank Battery

Project Number: [none]
Project Manager: Daniel Simpson

Reported:
01/21/25 12:11

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 BIA0596 - 3060A Mod

Blank (BIA0596-BLK1)

Prepared & Analyzed: 01/14/25

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BIA0596-BS1)

Prepared & Analyzed: 01/14/25

Chromium, Hexavalent 23.9 0.30 mg/kg wet 24.3 98.6 80-120

Duplicate (BIA0596-DUP1)

Source: 2412373-01

Prepared & Analyzed: 01/14/25

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BIA0596-MS1)

Source: 2412373-01

Prepared & Analyzed: 01/14/25

Chromium, Hexavalent 30.5 0.30 mg/kg dry 29.2 ND 104 75-125

Matrix Spike Dup (BIA0596-MSD1)

Source: 2412373-01

Prepared & Analyzed: 01/14/25

Chromium, Hexavalent 34.2 0.30 mg/kg dry 30.1 ND 114 75-125 11.6 20

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Project: Noble - Reistad 1 Tank Battery

Project Number: [none]
Project Manager: Daniel Simpson

Reported:
01/21/25 12:11

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 BIA0553 - General Preparation

Blank (BIA0553-BLK1)

Prepared: 01/13/25 Analyzed: 01/14/25

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

LCS (BIA0553-BS1)

Prepared: 01/13/25 Analyzed: 01/14/25

Calcium	4.53	0.0500	mg/L wet	5.00	90.5	70-130				
Magnesium	5.21	0.0500	"	5.00	104	70-130				
Sodium	5.28	0.0500	"	5.00	106	70-130				

Summit Scientific

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

Project: Noble - Reistad 1 Tank Battery

Project Number: [none]
Project Manager: Daniel Simpson

Reported:
01/21/25 12:11

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 BIA0588 - General Preparation

Duplicate (BIA0588-DUP1)

Source: 2412356-01

Prepared & Analyzed: 01/14/25

% Solids	80.7		%		81.5			0.948	20	
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Summit Scientific

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

Project: Noble - Reistad 1 Tank Battery

Project Number: [none]
Project Manager: Daniel Simpson

Reported:
01/21/25 12:11

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

Summit Scientific

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

Batch BIA0555 - General Preparation

Blank (BIA0555-BLK1)

Prepared: 01/13/25 Analyzed: 01/14/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BIA0555-BS1)

Prepared: 01/13/25 Analyzed: 01/14/25

Specific Conductance (EC) 1.34 0.0100 mmhos/cm 1.41 95.0 95-105

Duplicate (BIA0555-DUP1)

Source: 2501135-01

Prepared: 01/13/25 Analyzed: 01/14/25

Specific Conductance (EC) 0.503 0.0100 mmhos/cm 0.504 0.188 20

Summit Scientific

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

Project: Noble - Reistad 1 Tank Battery

Project Number: [none]
Project Manager: Daniel Simpson

Reported:
01/21/25 12:11

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 BIA0554 - General Preparation

LCS (BIA0554-BS1)

Prepared: 01/13/25 Analyzed: 01/14/25

pH	9.04	pH Units	9.18	98.5	95-105
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Duplicate (BIA0554-DUP1)

Source: 2501135-01

Prepared: 01/13/25 Analyzed: 01/14/25

pH	8.39	pH Units	8.39	0.0798	20
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Summit Scientific

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

Project: Noble - Reistad 1 Tank Battery

Project Number: [none]
Project Manager: Daniel Simpson

Reported:
01/21/25 12:11

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- 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.
- 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