

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 fluid and cursive, with the first name being more prominent.

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

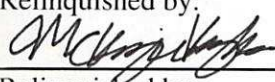

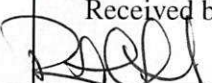
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH06@11-12'	2501138-01	Soil	01/13/25 14:27	01/13/25 17:55
BH06@12-13'	2501138-02	Soil	01/13/25 14:35	01/13/25 17:55

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

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Metals - 915	VOC - 915	TPH - 915	PAH - 915	SAR, EC, pH	Boron - HWS	HOLD		
1	BH06011-12'	1/13/25	1427	2			X			X			X	X	X	X	X	X			SAR, EC, pH by saturated paste
2	BH06012-13'	1	1435	1			+			+			+	+	+	+	+	+			
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by: 	Date/Time: 1/13/2025 1630	Received by: Tasman Lock Box	Date/Time: 1/13/2025 1630	TAT Business Days	Field DO	Notes:
Relinquished by: 	Date/Time: 1/13/25 1755	Received by: 	Date/Time: 1/13/25 1755	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.	
				Standard	Field Turb.	
Temperature Upon Receipt: 5.8	Corrected Temperature: 8	IR gun #:		HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 2501138Client: Nadjet Casman Client Project ID: Reistad 1 Tank BatteryShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #:

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

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.

Custodian Printed Name

Date/Time

AB

1/13/25

5000-0-02



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 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	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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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

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Total Metals by EPA 6020B

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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% 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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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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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01/21/25 12:11

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

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Total Metals by EPA 6020B

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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2501138-02 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

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

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

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Project: Noble - Reistad 1 Tank Battery

Project Number: [none]
Project Manager: Daniel Simpson

Reported:
01/21/25 12:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 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

Reported:
01/21/25 12:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

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	
Surrogate: 1,2-Dichloroethane-d4	0.0341		"	0.0400		85.4	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.6	50-150			

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Project: Noble - Reistad 1 Tank Battery

Project Number: [none]
Project Manager: Daniel Simpson

Reported:
01/21/25 12:11

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 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: o-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: o-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: o-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: o-Terphenyl	8.62		"	12.5	68.9		30-150			

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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

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch 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

Reported:
01/21/25 12:11

PAH by EPA Method 8270D SIM - Quality Control

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

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		
Surrogate: 2-Methylnaphthalene-d10	0.0169		"	0.0333		50.7	40-140		
Surrogate: Fluoranthene-d10	0.0165		"	0.0333		49.5	40-140		

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
Surrogate: 2-Methylnaphthalene-d10	0.0200		"	0.0333		60.1	40-140		
Surrogate: Fluoranthene-d10	0.0200		"	0.0333		60.0	40-140		

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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

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

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

Batch 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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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	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

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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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

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

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

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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Broomfield CO, 80020

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		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

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

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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 Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

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		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

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 Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

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