

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 25, 2024

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Noble - Reinick C-64N64W 0SENE Tank Battery

Work Order #2407292

Enclosed are the results of analyses for samples received by Summit Scientific on 07/23/24 17:47. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury

President



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

Project: Noble - Reinick C-64N64W 0SENE Tank Battery

Project Number: UWRWE-A2811-ABN
Project Manager: Jacob Whritenour

Reported:
07/25/24 12:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW01	2407292-01	Water	07/23/24 14:46	07/23/24 17:47

Summit Scientific

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

Lab ID	Page 1 of 1
2407292	

Send Data To:		Send Invoice To:	
Client: Noble/Tasman	Project Manager: Jake Whritenour	Company: <i>NOC</i>	
Address: 6855 W. 119th Ave.	E-Mail: Jwhritenour@tasman-geo.com	Project Name/Location:	
City/State/Zip: Broomfield/CO/ 80020		AFE#: <i>UNRENE-A2811-ABN</i>	
Phone: 810-923-0781	Project Name: <i>RENICH C-6UN64W OSCHE</i>	PO/Billing Codes:	
Sampler Name: Shannon Walus	Project Number: <i>TAN170A+TCU1</i>	Contact: <i>Miguel Barron</i> <i>SW Mine Montoya</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	VOC-915	TPH-915	PAH-915	pH, EC, SAR	Boron-915	Metals-915		HOLD	
1	<i>ETNO1</i>	<i>7/23/24</i>	<i>1440</i>	<i>3</i>	<i>3</i>					<input checked="" type="checkbox"/>									<i>X</i>	SAR, EC, pH by saturated paste	
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by: <i>Shannon Walus</i>	Date/Time: <i>7/23/24 1700</i>	Received by: <i>Tasman Lock Box</i>	Date/Time: <i>7/23/24 1700</i>	TAT Business Days	Field DO	Notes: <i>*1,24 & 1,3,5 TWBS, BTEXN</i>
				Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by: <i>Tasman Lock Box</i>	Date/Time: <i>7/23/24 1747</i>	Received by: <i>[Signature]</i>	Date/Time: <i>7/23/24 1747</i>	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <i>17.3</i>	Corrected Temperature: <i>8</i>	IR gun #:	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2407292

Client: Noble Cosman

Client Project ID: Penick C-64N64W GSENE
(Tank Battery)

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

Airbill #: _____

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C)

17.3

Thermometer #

1

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

7/23/24
Date/Time



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Broomfield CO, 80020

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Project Manager: Jacob Whritenour

Reported:
07/25/24 12:38

GW01
2407292-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/23/24 14:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BHG0664	07/23/24	07/24/24	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **07/23/24 14:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	12.2	91.7 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.3	99.7 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.8	96.1 %		21-167		"	"	"	"	

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Project: Noble - Reinick C-64N64W 0SENE Tank Battery
Project Number: UWRWE-A2811-ABN
Project Manager: Jacob Whritenour

Reported:
07/25/24 12:38

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 BHG0664 - EPA 5030 Water MS

Blank (BHG0664-BLK1)

Prepared: 07/23/24 Analyzed: 07/24/24

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Naphthalene	ND	1.0	"								
1,2,4-Trimethylbenzene	ND	1.0	"								
1,3,5-Trimethylbenzene	ND	1.0	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	13.0		"	13.3		97.9		23-173			
<i>Surrogate: Toluene-d8</i>	14.6		"	13.3		109		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.9		"	13.3		96.8		21-167			

LCS (BHG0664-BS1)

Prepared & Analyzed: 07/23/24

Benzene	39.4	1.0	ug/l	33.3		118		51-132			
Toluene	39.7	1.0	"	33.3		119		51-138			
Ethylbenzene	38.1	1.0	"	33.3		114		58-146			
m,p-Xylene	78.5	2.0	"	66.7		118		57-144			
o-Xylene	40.4	1.0	"	33.3		121		53-146			
Naphthalene	36.5	1.0	"	33.3		109		70-130			
1,2,4-Trimethylbenzene	38.9	1.0	"	33.3		117		70-130			
1,3,5-Trimethylbenzene	39.1	1.0	"	33.3		117		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	14.1		"	13.3		106		23-173			
<i>Surrogate: Toluene-d8</i>	13.1		"	13.3		98.4		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	14.0		"	13.3		105		21-167			

LCS Dup (BHG0664-BS1)

Prepared & Analyzed: 07/23/24

Benzene	40.9	1.0	ug/l	33.3		123		51-132	3.71	20	
Toluene	40.9	1.0	"	33.3		123		51-138	2.93	20	
Ethylbenzene	39.1	1.0	"	33.3		117		58-146	2.54	20	
m,p-Xylene	81.0	2.0	"	66.7		122		57-144	3.21	20	
o-Xylene	41.6	1.0	"	33.3		125		53-146	3.12	20	
Naphthalene	37.7	1.0	"	33.3		113		70-130	3.37	20	
1,2,4-Trimethylbenzene	40.1	1.0	"	33.3		120		70-130	3.14	20	
1,3,5-Trimethylbenzene	40.1	1.0	"	33.3		120		70-130	2.53	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	14.5		"	13.3		109		23-173			
<i>Surrogate: Toluene-d8</i>	13.1		"	13.3		98.3		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.6		"	13.3		102		21-167			

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Notes and Definitions

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