

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 18, 2025

Mike Medina

Tasman Geosciences

4725 Independence St.

Wheat Ridge, CO 80033

RE: Noble - Diller 42-13 Tank Battery

Work Order #2502452

Enclosed are the results of analyses for samples received by Summit Scientific on 02/25/25 16:30. 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 Paul Shrewsbury

President



Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB01@5-6'	2502452-01	Soil	02/25/25 10:16	02/25/25 16:30
SB01@10'	2502452-02	Soil	02/25/25 11:00	02/25/25 16:30
SB02@5-6'	2502452-03	Soil	02/25/25 11:45	02/25/25 16:30
SB03@5-6'	2502452-04	Soil	02/25/25 11:54	02/25/25 16:30
SB04@5.1'	2502452-05	Soil	02/25/25 11:17	02/25/25 16:30
SB04@5-6'	2502452-06	Soil	02/25/25 11:47	02/25/25 16:30
SB05@5.1'	2502452-07	Soil	02/25/25 11:05	02/25/25 16:30
SB05@5-6'	2502452-08	Soil	02/25/25 11:51	02/25/25 16:30
SB06@5.1'	2502452-09	Soil	02/25/25 11:35	02/25/25 16:30
SB07@5.1'	2502452-10	Soil	02/25/25 11:37	02/25/25 16:30
SB08@5.1'	2502452-11	Soil	02/25/25 11:39	02/25/25 16:30
BKG02@2-3'	2502452-12	Soil	02/25/25 12:26	02/25/25 16:30
BKG02@5-6'	2502452-13	Soil	02/25/25 12:28	02/25/25 16:30
BKG02@6-7'	2502452-14	Soil	02/25/25 12:30	02/25/25 16:30
BKG02@8-9'	2502452-15	Soil	02/25/25 12:32	02/25/25 16:30
BKG02@9-10'	2502452-16	Soil	02/25/25 12:34	02/25/25 16:30
BKG03@2-3'	2502452-17	Soil	02/25/25 12:36	02/25/25 16:30
BKG03@5-6'	2502452-18	Soil	02/25/25 12:38	02/25/25 16:30
BKG03@6-7'	2502452-19	Soil	02/25/25 12:40	02/25/25 16:30
BKG03@8-9'	2502452-20	Soil	02/25/25 12:42	02/25/25 16:30
BKG03@9-10'	2502452-21	Soil	02/25/25 12:44	02/25/25 16:30
BKG04@2-3'	2502452-22	Soil	02/25/25 12:46	02/25/25 16:30
BKG04@5-6'	2502452-23	Soil	02/25/25 12:48	02/25/25 16:30
BKG04@6-7'	2502452-24	Soil	02/25/25 12:50	02/25/25 16:30
BKG04@8-9'	2502452-25	Soil	02/25/25 12:52	02/25/25 16:30
BKG04@9-10'	2502452-26	Soil	02/25/25 12:54	02/25/25 16:30
BKG05@2-3'	2502452-27	Soil	02/25/25 12:56	02/25/25 16:30

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG05@5-6'	2502452-28	Soil	02/25/25 12:58	02/25/25 16:30
BKG05@6-7'	2502452-29	Soil	02/25/25 13:00	02/25/25 16:30
BKG05@8-9'	2502452-30	Soil	02/25/25 13:02	02/25/25 16:30
BKG05@9-10'	2502452-31	Soil	02/25/25 13:04	02/25/25 16:30

Summit Scientific

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Client: Noble/Tasman		Send Data To:		Send Invoice To:	
Address: 6855 W. 119th Ave.		Project Manager: Mike Medina		Company: Noble	
City/State/Zip: Broomfield/CO/ 80020		E-Mail: tas-chevron-2@tasman-geo.com		Project Name/Location: Diller 42-13 Tank Battery	
Phone: (970) 405-3529		RBUEF27@Chevron.com Dan Peterson @chevron.com		AFE#:	
Sampler Name: Ulices Sordal		Project Name: Diller 42-13 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 BTEXN-915	Metals - 915	VOC - 915	TPH - 915	PAH - 915	SAR, EC, pH	Boron - HWS	HOLD		SAR, EC, pH by saturated paste
1	SB01 C 5-6'	2-25-25	10:16	2			X			X		X	X	X	X	X	X	X			
2	SB01 C 10'		11:00	2																	
3	SB02 C 5-6'		11:45	2																	
4	SB03 C 5-6'		11:54	2																	
5	SB04 C 5-1'		11:17	2																	
6	SB04 C 5-6'		11:47	2																	
7	SB05 C 5-1'		11:05	2																	
8	SB05 C 5-6'		11:51	2																	
9	SB06 C 5-1'		11:35	2																	
10	SB07 C 5-1'		11:37	2																	
11	SB08 C 5-1'		11:39	2																	
12	BKG02 C 2-3'		12:26	1													X	X			
13	BKG02 C 5-6'		12:28	1																	
14	BKG02 C 6-7'		12:30	1																	
15	BKG02 C 8-9'		12:32	1																	

Relinquished by: Ulices Sordal	Date/Time: 2-25-25 14:05	Received by: Tasman Lock Box	Date/Time: 2-25-25 14:05	TAT Business Days	Field DO	Notes:
		Summit North Scientific		Same Day	Field EC	
Relinquished by: S2	Date/Time: 2-25-25 16:30	Received by: [Signature]	Date/Time: 2-25-25 16:30	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: 1.9		Corrected Temperature: 0		IR gun #: 1		HNO3 lot #:



Client: Noble/Tasman		Send Data To:		Send Invoice To:	
Address: 6855 W. 119th Ave.		Project Manager: <i>mike Medina</i>		Company: Noble	
City/State/Zip: Broomfield/CO/ 80020		E-Mail: tas-chevron-2@tasman-geo.com		Project Name/Location: <i>Diller 42-13 Tank Battery</i>	
Phone: <i>(970) 405-3529</i>		RBUEF27@Chevron.com <i>(Dunpetersen@chevron.com)</i>		AFE#:	
Sampler Name: <i>Aljos Siedel</i>		Project Name: <i>FAIR 42-13 Tank Battery</i>		PO/Billing Codes:	
		Project Number: <i>42-13 JN</i>		Contact: <i>Dan Peterson</i>	

					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		SAR, EC, pH by saturated paste
1	BK602 C 9-10'	2-25-25	12:34	1		/	X			X			X				X	X			
2	BK603 C 2-3'	}	12:36	1																	
3	BK603 C 5-6'		12:38	1																	
4	BK603 C 6-7'		12:40	1																	
5	BK603 C 8-9'		12:42	1																	
6	BK603 C 9-10'		12:44	1																	
7	BK604 C 2-3'	}	12:46	1																	
8	BK604 C 5-6'		12:48	1																	
9	BK604 C 6-7'		12:50	1																	
10	BK604 C 8-9'		12:52	1																	
11	BK604 C 9-10'		12:54	1																	
12	BK605 C 2-3'	}	12:56	1																	
13	BK605 C 5-6'		12:58	1																	
14	BK605 C 6-7'		13:00	1																	
15	BK605 C 8-9'		13:02	1																	

Relinquished by: <i>Aljos Siedel</i>	Date/Time: <i>2-25-25</i>	Received by: <i>Tasman Lock Box</i>	Date/Time: <i>2-25-25 14:05</i>	TAT Business Days	Field DO	Notes:
		<i>Summit North Scientific</i>		Same Day	Field EC	
Relinquished by: <i>SL</i>	Date/Time: <i>2-25-25 16:50</i>	Received by: <i>[Signature]</i>	Date/Time: <i>2-25-25 16:30</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>1.9</i>	Corrected Temperature: <i>6</i>	IR gun #:		HNO3 lot #:		



Client: Noble/Tasman		Send Data To:		Send Invoice To:	
Address: 6855 W. 119th Ave.		Project Manager: <i>Mike Medina</i>		Company: Noble	
City/State/Zip: Broomfield/CO/ 80020		E-Mail: tas-chevron-2@tasman-geo.com		Project Name/Location: <i>Diller 42-13 TB</i>	
Phone: <i>970 405-3529</i>		RBUEF27@Chevron.com <i>Dempeterson@chevron.com</i>		AFE#:	
Sampler Name: <i>Wises Sandlund</i>		Project Name: <i>Diller Tank Battery</i>		PO/Billing Codes:	
		Project Number: <i>42-13</i>		Contact: <i>Dan Petterson</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 <i>B. Text-95</i>	Metals - 915	VOC - 915	TPH - 915	PAH - 915	SAR, EC, pH	Boron - HWS	HOLD	
1	<i>BK605 C 9-10'</i>	<i>2-25-25</i>	<i>13:04</i>	<i>1</i>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		SAR, EC, pH by saturated paste
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by:	Date/Time:	Received by: <b>Tasman Lock Box</b>	Date/Time:	TAT Business Days	Field DO	Notes:
<i>Wises Sandlund</i>	<i>2-25-25 14:05</i>	<i>Summit North Scientific</i>	<i>2-25-25 14:05</i>	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
<i>52</i>	<i>2-25-25 1630</i>	<i>[Signature]</i>	<i>2-25-25 1630</i>	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard <input checked="" type="checkbox"/>	Field Turb.	
Temperature Upon Receipt: <i>1.9</i>	Corrected Temperature: <i>C</i>	IR gun #: <i>1</i>	HNO3 lot #:			

S<sub>2</sub>

3/5

S2 Work Order# 2502452

## Sample Receipt Checklist

Client: Noble Tasman Client Project ID: Diller 42-13 Tank BatteryReceived Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐Matrix (Circle all that apply) Air/Soil/Water/Other ☐ Temp (°C) 1.9 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> <b>NOTE:</b> 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were samples provided in appropriate bottle ware?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<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 checked="" type="checkbox"/>	<input type="checkbox"/>	
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.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are there requested analysis that cannot be performed by S2? Note analysis in the comments column	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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

2/25/25  
 Date/Time



Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB01@5-6'**  
**2502452-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 10:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BIC0516	03/10/25	03/30/25	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: **02/25/25 10:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0391	97.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0357	89.3 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/25/25 10:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BIC0524	03/10/25	04/11/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/25/25 10:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	9.25	74.0 %	50-140		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB01@5-6'**  
**2502452-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/25/25 10:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC0368	03/06/25	03/13/25	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: **02/25/25 10:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0214	64.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0188	56.3 %	40-140		"	"	"	"	

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

Date Sampled: **02/25/25 10:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC0977	03/17/25	03/20/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 10:16**

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 - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB01@5-6'**  
**2502452-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.468	0.200	mg/kg dry	1	BIC1444	03/24/25	04/15/25	EPA 6020B
Barium	43.5	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	0.922	0.400	"	"	"	"	"	"
Lead	2.73	0.200	"	"	"	"	"	"
Nickel	1.21	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	4.06	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 10:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0207	03/04/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 10:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	134	0.0500	mg/L dry	1	BIC1426	03/24/25	04/02/25	EPA 6020B	
Magnesium	36.2	0.0500	"	"	"	"	"	"	
Sodium	2.96	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/25/25 10:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0586	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB01@5-6'**  
**2502452-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 10:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.1		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 10:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0986	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 10:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.48		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*





Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB01@10'**  
**2502452-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BIC0516	03/10/25	03/30/25	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: **02/25/25 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0404	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	99.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0362	90.6 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/25/25 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BIC0524	03/10/25	04/12/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/25/25 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.75	78.0 %	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 - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB01@10'**  
**2502452-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/25/25 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC0368	03/06/25	03/18/25	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: **02/25/25 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0244	73.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0274	82.1 %	40-140		"	"	"	"	

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

Date Sampled: **02/25/25 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC0977	03/17/25	03/20/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 11:00**

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 - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB01@10'**  
**2502452-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.426	0.200	mg/kg dry	1	BIC1444	03/24/25	04/15/25	EPA 6020B
Barium	54.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	0.951	0.400	"	"	"	"	"	"
Lead	3.40	0.200	"	"	"	"	"	"
Nickel	1.24	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	4.50	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0207	03/04/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1120	0.0500	mg/L dry	1	BIC1426	03/24/25	04/02/25	EPA 6020B	
Magnesium	61.8	0.0500	"	"	"	"	"	"	
Sodium	5.07	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/25/25 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0399	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB01@10'**  
**2502452-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.2		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.153	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.56		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB02@5-6'**  
**2502452-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BIC0516	03/10/25	03/30/25	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: **02/25/25 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0381	95.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0357	89.3 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/25/25 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BIC0524	03/10/25	04/12/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/25/25 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.8	94.0 %	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 - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB02@5-6'**  
**2502452-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/25/25 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC0368	03/06/25	03/18/25	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: **02/25/25 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0279	83.7 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0325	97.5 %	40-140		"	"	"	"	

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

Date Sampled: **02/25/25 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC0977	03/17/25	03/20/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 11:45**

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 - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB02@5-6'**  
**2502452-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.461	0.200	mg/kg dry	1	BIC1444	03/24/25	04/15/25	EPA 6020B
Barium	36.6	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	0.787	0.400	"	"	"	"	"	"
Lead	2.65	0.200	"	"	"	"	"	"
Nickel	1.19	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	3.75	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0207	03/04/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	136	0.0500	mg/L dry	1	BIC1426	03/24/25	04/02/25	EPA 6020B	
Magnesium	35.8	0.0500	"	"	"	"	"	"	
Sodium	0.983	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/25/25 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0194	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB02@5-6'**  
**2502452-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.1		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0285	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.61		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB03@5-6'**  
**2502452-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 11:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BIC0516	03/10/25	03/30/25	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: **02/25/25 11:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0352	87.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0403	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0355	88.8 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/25/25 11:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BIC0524	03/10/25	04/12/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/25/25 11:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.25	74.0 %	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 - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB03@5-6'**  
**2502452-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/25/25 11:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BIC0368	03/06/25	03/13/25	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: **02/25/25 11:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0223	66.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0196	58.8 %	40-140		"	"	"	"	

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

Date Sampled: **02/25/25 11:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BIC0977	03/17/25	03/20/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 11:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB03@5-6'**  
**2502452-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.448	0.200	mg/kg dry	1	BIC1444	03/24/25	04/15/25	EPA 6020B
Barium	39.6	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	0.834	0.400	"	"	"	"	"	"
Lead	2.66	0.200	"	"	"	"	"	"
Nickel	1.18	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	3.85	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0207	03/04/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	139	0.0500	mg/L dry	1	BIC1426	03/24/25	04/02/25	EPA 6020B	
Magnesium	36.5	0.0500	"	"	"	"	"	"	
Sodium	1.01	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/25/25 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0197	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB03@5-6'**  
**2502452-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.2		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0337	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.01		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB04@5.1'**  
**2502452-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 11:17**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BIC0516	03/10/25	03/30/25	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: **02/25/25 11:17**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0362	90.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0407	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0363	90.7 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/25/25 11:17**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BIC0524	03/10/25	04/12/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/25/25 11:17**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.59	76.7 %	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 - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB04@5.1'**  
**2502452-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/25/25 11:17**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BIC0368	03/06/25	03/13/25	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: **02/25/25 11:17**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0209	62.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0189	56.7 %	40-140		"	"	"	"	

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

Date Sampled: **02/25/25 11:17**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BIC0977	03/17/25	03/20/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 11:17**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB04@5.1'**  
**2502452-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.440	0.200	mg/kg dry	1	BIC1444	03/24/25	04/15/25	EPA 6020B
Barium	26.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	0.982	0.400	"	"	"	"	"	"
Lead	4.73	0.200	"	"	"	"	"	"
Nickel	0.779	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	3.81	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 11:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0207	03/04/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 11:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	60.5	0.0500	mg/L dry	1	BIC1426	03/24/25	04/02/25	EPA 6020B	
Magnesium	11.4	0.0500	"	"	"	"	"	"	
Sodium	1.85	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/25/25 11:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0572	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB04@5.1'**  
**2502452-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 11:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.1		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 11:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0518	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 11:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	5.27		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB04@5-6'**  
**2502452-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 11:47**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BIC0516	03/10/25	03/30/25	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: **02/25/25 11:47**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0365	91.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0369	92.2 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/25/25 11:47**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BIC0524	03/10/25	04/12/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/25/25 11:47**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.80	78.4 %	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 - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB04@5-6'**  
**2502452-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/25/25 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC0368	03/06/25	03/13/25	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: **02/25/25 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0159	47.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0143	42.8 %	40-140		"	"	"	"	

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

Date Sampled: **02/25/25 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC0978	03/17/25	03/21/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 11:47**

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 - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB04@5-6'**  
**2502452-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.495	0.200	mg/kg dry	1	BIC1444	03/24/25	04/15/25	EPA 6020B
Barium	38.7	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	0.885	0.400	"	"	"	"	"	"
Lead	2.49	0.200	"	"	"	"	"	"
Nickel	1.03	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	3.56	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0207	03/04/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	103	0.0500	mg/L dry	1	BIC1426	03/24/25	04/02/25	EPA 6020B	
Magnesium	27.9	0.0500	"	"	"	"	"	"	
Sodium	1.48	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/25/25 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0334	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB04@5-6'**  
**2502452-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.7		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0508	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.26		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB05@5.1'**  
**2502452-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BIC0516	03/10/25	03/30/25	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: **02/25/25 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0403	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0369	92.2 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/25/25 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BIC0524	03/10/25	04/12/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/25/25 11:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.11	64.9 %	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 - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB05@5.1'**  
**2502452-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/25/25 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC0368	03/06/25	03/13/25	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: **02/25/25 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0196	58.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0175	52.5 %	40-140		"	"	"	"	

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

Date Sampled: **02/25/25 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC0978	03/17/25	03/21/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 11:05**

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 - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB05@5.1'**  
**2502452-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.444	0.200	mg/kg dry	1	BIC1444	03/24/25	04/15/25	EPA 6020B
Barium	25.2	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	0.962	0.400	"	"	"	"	"	"
Lead	4.21	0.200	"	"	"	"	"	"
Nickel	0.809	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	3.81	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0207	03/04/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	72.5	0.0500	mg/L dry	1	BIC1426	03/24/25	04/02/25	EPA 6020B	
Magnesium	14.5	0.0500	"	"	"	"	"	"	
Sodium	3.19	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/25/25 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0895	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB05@5.1'**  
**2502452-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.3		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0589	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	4.60		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB05@5-6'**  
**2502452-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 11:51**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BIC0516	03/10/25	03/30/25	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: **02/25/25 11:51**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0374	93.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0416	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0368	91.9 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/25/25 11:51**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BIC0524	03/10/25	04/12/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/25/25 11:51**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.58	76.7 %	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 - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB05@5-6'**  
**2502452-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/25/25 11:51**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BIC0368	03/06/25	03/18/25	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: **02/25/25 11:51**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0258	77.4 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0293	87.9 %	40-140		"	"	"	"	

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

Date Sampled: **02/25/25 11:51**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BIC0978	03/17/25	03/21/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 11:51**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB05@5-6'**  
**2502452-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.525	0.200	mg/kg dry	1	BIC1444	03/24/25	04/15/25	EPA 6020B
Barium	45.1	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	0.936	0.400	"	"	"	"	"	"
Lead	2.72	0.200	"	"	"	"	"	"
Nickel	1.09	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	3.95	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 11:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0207	03/04/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 11:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	128	0.0500	mg/L dry	1	BIC1426	03/24/25	04/02/25	EPA 6020B	
Magnesium	33.1	0.0500	"	"	"	"	"	"	
Sodium	1.47	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/25/25 11:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0300	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB05@5-6'**  
**2502452-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 11:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.2		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 11:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0445	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 11:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.54		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB06@5.1'**  
**2502452-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 11:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BIC0516	03/10/25	03/30/25	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: **02/25/25 11:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0364	90.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0360	89.9 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/25/25 11:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BIC0524	03/10/25	04/12/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/25/25 11:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.1	80.8 %	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 - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB06@5.1'**  
**2502452-09 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/25/25 11:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BIC0368	03/06/25	03/14/25	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: **02/25/25 11:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0162	48.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0150	45.0 %	40-140		"	"	"	"	

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

Date Sampled: **02/25/25 11:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BIC0978	03/17/25	03/21/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 11:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB06@5.1'**  
**2502452-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.477	0.200	mg/kg dry	1	BIC1444	03/24/25	04/15/25	EPA 6020B
Barium	26.6	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	0.964	0.400	"	"	"	"	"	"
Lead	2.84	0.200	"	"	"	"	"	"
Nickel	0.848	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	3.93	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0207	03/04/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	65.3	0.0500	mg/L dry	1	BIC1426	03/24/25	04/02/25	EPA 6020B	
Magnesium	14.1	0.0500	"	"	"	"	"	"	
Sodium	1.07	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/25/25 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0313	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB06@5.1'**  
**2502452-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.9		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0278	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	5.65		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB07@5.1'**  
**2502452-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 11:37**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BIC0516	03/10/25	03/30/25	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: **02/25/25 11:37**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0415	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0358	89.6 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/25/25 11:37**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BIC0524	03/10/25	04/12/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/25/25 11:37**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.48	67.8 %	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 - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB07@5.1'**  
**2502452-10 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/25/25 11:37**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BIC0368	03/06/25	03/14/25	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: **02/25/25 11:37**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0202	60.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0189	56.6 %	40-140		"	"	"	"	

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

Date Sampled: **02/25/25 11:37**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BIC0978	03/17/25	03/21/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 11:37**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB07@5.1'**  
**2502452-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.465	0.200	mg/kg dry	1	BIC1444	03/24/25	04/15/25	EPA 6020B
Barium	28.2	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.00	0.400	"	"	"	"	"	"
Lead	4.43	0.200	"	"	"	"	"	"
Nickel	0.864	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	4.07	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 11:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0207	03/04/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 11:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	72.0	0.0500	mg/L dry	1	BIC1426	03/24/25	04/02/25	EPA 6020B	
Magnesium	14.5	0.0500	"	"	"	"	"	"	
Sodium	1.39	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/25/25 11:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0391	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB07@5.1'**  
**2502452-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 11:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.5		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 11:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0627	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 11:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	4.66		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB08@5.1'**  
**2502452-11 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 11:39**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BIC0516	03/10/25	03/30/25	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: **02/25/25 11:39**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0365	91.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0409	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0368	92.0 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/25/25 11:39**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BIC0524	03/10/25	04/12/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/25/25 11:39**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.80	70.4 %	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 - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB08@5.1'**  
**2502452-11 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/25/25 11:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC0368	03/06/25	03/14/25	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: **02/25/25 11:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0235	70.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0213	63.9 %	40-140		"	"	"	"	

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

Date Sampled: **02/25/25 11:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC0978	03/17/25	03/21/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 11:39**

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 - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB08@5.1'**  
**2502452-11 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.420	0.200	mg/kg dry	1	BIC1444	03/24/25	04/15/25	EPA 6020B
Barium	24.1	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.07	0.400	"	"	"	"	"	"
Lead	3.40	0.200	"	"	"	"	"	"
Nickel	0.783	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	3.98	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 11:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0207	03/04/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 11:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	73.1	0.0500	mg/L dry	1	BIC1426	03/24/25	04/02/25	EPA 6020B	
Magnesium	15.8	0.0500	"	"	"	"	"	"	
Sodium	0.843	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/25/25 11:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0233	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**SB08@5.1'**  
**2502452-11 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 11:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.8		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 11:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0291	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 11:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	5.01		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG02@2-3'**  
**2502452-12 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 12:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIC0978	03/17/25	03/21/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 12:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>0.398</b>	0.200		mg/kg dry	1	BIC1444	03/24/25	04/15/25	EPA 6020B	
Barium	<b>29.5</b>	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	<b>0.845</b>	0.400		"	"	"	"	"	"	
Lead	<b>2.52</b>	0.200		"	"	"	"	"	"	
Nickel	<b>1.09</b>	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	<b>3.86</b>	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 12:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIC0207	03/04/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 12:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>115</b>	0.0500		mg/L dry	1	BIC1426	03/24/25	04/02/25	EPA 6020B	
Magnesium	<b>29.9</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>1.22</b>	0.0500		"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG02@2-3'**  
**2502452-12 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/25/25 12:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0262	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

Date Sampled: **02/25/25 12:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.6		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 12:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0482	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 12:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.58		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG02@5-6'**  
**2502452-13 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 12:28**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BIC0978	03/17/25	03/21/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 12:28**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	<b>0.672</b>	0.200	mg/kg dry	1	BIC1444	03/24/25	04/15/25	EPA 6020B	
Barium	<b>83.6</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>1.30</b>	0.400	"	"	"	"	"	"	
Lead	<b>4.86</b>	0.200	"	"	"	"	"	"	
Nickel	<b>1.80</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0208</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>5.90</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 12:28**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0207	03/04/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 12:28**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>93.4</b>	0.0500	mg/L dry	1	BIC1426	03/24/25	04/02/25	EPA 6020B	
Magnesium	<b>27.7</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>3.63</b>	0.0500	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG02@5-6'**  
**2502452-13 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/25/25 12:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0848	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

Date Sampled: **02/25/25 12:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.7		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 12:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0621	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 12:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.15		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG02@6-7'**  
**2502452-14 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIC0978	03/17/25	03/21/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>0.315</b>	0.200		mg/kg dry	1	BIC1444	03/24/25	04/15/25	EPA 6020B	
Barium	<b>17.1</b>	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	<b>0.686</b>	0.400		"	"	"	"	"	"	
Lead	<b>1.64</b>	0.200		"	"	"	"	"	"	
Nickel	<b>0.787</b>	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	<b>3.22</b>	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIC0207	03/04/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>109</b>	0.0500		mg/L dry	1	BIC1426	03/24/25	04/02/25	EPA 6020B	
Magnesium	<b>31.1</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>4.60</b>	0.0500		"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG02@6-7'**  
**2502452-14 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/25/25 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.100</b>	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

Date Sampled: **02/25/25 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>96.5</b>		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.105</b>	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.05</b>		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG02@8-9'**  
**2502452-15 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 12:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIC0978	03/17/25	03/21/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 12:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>0.354</b>	0.200		mg/kg dry	1	BIC1444	03/24/25	04/15/25	EPA 6020B	
Barium	<b>21.3</b>	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	<b>0.807</b>	0.400		"	"	"	"	"	"	
Lead	<b>2.02</b>	0.200		"	"	"	"	"	"	
Nickel	<b>0.801</b>	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	<b>3.55</b>	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 12:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIC0207	03/04/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 12:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>27.3</b>	0.0500		mg/L dry	1	BIC1426	03/24/25	04/02/25	EPA 6020B	
Magnesium	<b>8.38</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>20.8</b>	0.0500		"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG02@8-9'**  
**2502452-15 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/25/25 12:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.893</b>	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

Date Sampled: **02/25/25 12:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>96.0</b>		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 12:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.261</b>	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 12:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.12</b>		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG02@9-10'**  
**2502452-16 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 12:34**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIC0978	03/17/25	03/21/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 12:34**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>0.561</b>	0.200		mg/kg dry	1	BIC1444	03/24/25	04/15/25	EPA 6020B	
Barium	<b>55.1</b>	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	<b>1.18</b>	0.400		"	"	"	"	"	"	
Lead	<b>3.58</b>	0.200		"	"	"	"	"	"	
Nickel	<b>1.15</b>	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	<b>4.28</b>	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 12:34**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIC0207	03/04/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 12:34**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>21.3</b>	0.0500		mg/L dry	1	BIC1426	03/24/25	04/02/25	EPA 6020B	
Magnesium	<b>7.54</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>106</b>	0.0500		"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG02@9-10'**  
**2502452-16 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/25/25 12:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.03	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

Date Sampled: **02/25/25 12:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.4		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 12:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.781	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 12:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.32		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG03@2-3'**  
**2502452-17 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 12:36**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BIC0978	03/17/25	03/21/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 12:36**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	<b>0.499</b>	0.200	mg/kg dry	1	BIC1444	03/24/25	04/15/25	EPA 6020B	
Barium	<b>48.1</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>0.889</b>	0.400	"	"	"	"	"	"	
Lead	<b>3.29</b>	0.200	"	"	"	"	"	"	
Nickel	<b>1.23</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0220</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>4.49</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 12:36**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0207	03/04/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 12:36**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>111</b>	0.0500	mg/L dry	1	BIC1426	03/24/25	04/02/25	EPA 6020B	
Magnesium	<b>29.9</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>1.34</b>	0.0500	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG03@2-3'**  
**2502452-17 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/25/25 12:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0291	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

Date Sampled: **02/25/25 12:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.9		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 12:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0451	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 12:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.74		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG03@5-6'**  
**2502452-18 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 12:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BIC0978	03/17/25	03/21/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 12:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	<b>0.749</b>	0.200	mg/kg dry	1	BIC1444	03/24/25	04/15/25	EPA 6020B	
Barium	<b>143</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>1.89</b>	0.400	"	"	"	"	"	"	
Lead	<b>7.08</b>	0.200	"	"	"	"	"	"	
Nickel	<b>2.27</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0331</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>6.43</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 12:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0207	03/04/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 12:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>359</b>	0.0500	mg/L dry	1	BIC1426	03/24/25	04/02/25	EPA 6020B	
Magnesium	<b>23.2</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>21.3</b>	0.0500	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG03@5-6'**  
**2502452-18 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/25/25 12:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.294</b>	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

Date Sampled: **02/25/25 12:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>91.6</b>		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 12:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.379</b>	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 12:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.36</b>		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG03@6-7'**  
**2502452-19 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BIC0978	03/17/25	03/21/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	<b>0.789</b>	0.200	mg/kg dry	1	BIC1444	03/24/25	04/15/25	EPA 6020B	
Barium	<b>153</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>1.84</b>	0.400	"	"	"	"	"	"	
Lead	<b>7.95</b>	0.200	"	"	"	"	"	"	
Nickel	<b>2.35</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0348</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>6.30</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0207	03/04/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>12800</b>	0.0500	mg/L dry	1	BIC1426	03/24/25	04/02/25	EPA 6020B	
Magnesium	<b>618</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>70.2</b>	0.0500	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG03@6-7'**  
**2502452-19 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/25/25 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.164</b>	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

Date Sampled: **02/25/25 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>90.6</b>		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.392</b>	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.43</b>		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG03@8-9'**  
**2502452-20 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 12:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIC0978	03/17/25	03/21/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 12:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>0.865</b>	0.200		mg/kg dry	1	BIC1445	03/24/25	04/15/25	EPA 6020B	
Barium	<b>165</b>	0.400		"	"	"	"	"	"	
Cadmium	<b>0.211</b>	0.200		"	"	"	"	"	"	
Copper	<b>2.06</b>	0.400		"	"	"	"	"	"	
Lead	<b>8.97</b>	0.200		"	"	"	"	"	"	
Nickel	<b>2.61</b>	0.400		"	"	"	"	"	"	
Silver	<b>0.0417</b>	0.0200		"	"	"	"	"	"	
Zinc	<b>7.54</b>	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 12:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIC0207	03/04/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 12:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>9330</b>	0.0500		mg/L dry	1	BIC1426	03/24/25	04/02/25	EPA 6020B	
Magnesium	<b>443</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>89.8</b>	0.0500		"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG03@8-9'**  
**2502452-20 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/25/25 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.247	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

Date Sampled: **02/25/25 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.9		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.463	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.42		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG03@9-10'**  
**2502452-21 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 12:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIB1477	02/26/25	02/27/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 12:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>0.826</b>	0.200		mg/kg dry	1	BIC1445	03/24/25	04/15/25	EPA 6020B	
Barium	<b>135</b>	0.400		"	"	"	"	"	"	
Cadmium	<b>0.237</b>	0.200		"	"	"	"	"	"	
Copper	<b>1.92</b>	0.400		"	"	"	"	"	"	
Lead	<b>8.86</b>	0.200		"	"	"	"	"	"	
Nickel	<b>2.26</b>	0.400		"	"	"	"	"	"	
Silver	<b>0.0404</b>	0.0200		"	"	"	"	"	"	
Zinc	<b>7.71</b>	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 12:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIC0236	03/05/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 12:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>4610</b>	0.0500		mg/L dry	1	BIC1426	03/24/25	04/03/25	EPA 6020B	
Magnesium	<b>220</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>50.8</b>	0.0500		"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG03@9-10'**  
**2502452-21 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/25/25 12:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.198</b>	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

Date Sampled: **02/25/25 12:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>89.6</b>		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 12:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.411</b>	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 12:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.54</b>		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG04@2-3'**  
**2502452-22 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 12:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIB1477	02/26/25	02/27/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 12:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>0.367</b>	0.200		mg/kg dry	1	BIC1445	03/24/25	04/15/25	EPA 6020B	
Barium	<b>36.4</b>	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	<b>0.857</b>	0.400		"	"	"	"	"	"	
Lead	<b>2.84</b>	0.200		"	"	"	"	"	"	
Nickel	<b>0.992</b>	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	<b>3.63</b>	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 12:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIC0236	03/05/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 12:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>79.1</b>	0.0500		mg/L dry	1	BIC1426	03/24/25	04/03/25	EPA 6020B	
Magnesium	<b>21.7</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>5.80</b>	0.0500		"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG04@2-3'**  
**2502452-22 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/25/25 12:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.149</b>	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

Date Sampled: **02/25/25 12:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>97.6</b>		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 12:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.107</b>	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 12:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>7.88</b>		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG04@5-6'**  
**2502452-23 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 12:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BIB1477	02/26/25	02/27/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 12:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	<b>0.418</b>	0.200	mg/kg dry	1	BIC1445	03/24/25	04/15/25	EPA 6020B	
Barium	<b>52.1</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>1.22</b>	0.400	"	"	"	"	"	"	
Lead	<b>3.35</b>	0.200	"	"	"	"	"	"	
Nickel	<b>1.26</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	<b>4.81</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 12:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0236	03/05/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 12:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>39.5</b>	0.0500	mg/L dry	1	BIC1426	03/24/25	04/03/25	EPA 6020B	
Magnesium	<b>12.3</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>14.4</b>	0.0500	"	"	"	"	"	"	

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG04@5-6'**  
**2502452-23 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/25/25 12:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.513	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

Date Sampled: **02/25/25 12:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.8		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 12:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.227	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 12:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.94		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG04@6-7'**  
**2502452-24 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIB1477	02/26/25	02/27/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>0.480</b>	0.200		mg/kg dry	1	BIC1445	03/24/25	04/15/25	EPA 6020B	
Barium	<b>56.5</b>	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	<b>1.10</b>	0.400		"	"	"	"	"	"	
Lead	<b>4.59</b>	0.200		"	"	"	"	"	"	
Nickel	<b>1.39</b>	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	<b>5.30</b>	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIC0236	03/05/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>89.5</b>	0.0500		mg/L dry	1	BIC1426	03/24/25	04/03/25	EPA 6020B	
Magnesium	<b>22.7</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>26.4</b>	0.0500		"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG04@6-7'**  
**2502452-24 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/25/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.645</b>	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

Date Sampled: **02/25/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>94.2</b>		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.780</b>	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>6.74</b>		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG04@8-9'**  
**2502452-25 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 12:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIB1477	02/26/25	02/27/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 12:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>0.471</b>	0.200		mg/kg dry	1	BIC1445	03/24/25	04/15/25	EPA 6020B	
Barium	<b>44.1</b>	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	<b>1.16</b>	0.400		"	"	"	"	"	"	
Lead	<b>3.40</b>	0.200		"	"	"	"	"	"	
Nickel	<b>1.52</b>	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	<b>4.95</b>	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 12:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIC0236	03/05/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 12:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>74.2</b>	0.0500		mg/L dry	1	BIC1426	03/24/25	04/03/25	EPA 6020B	
Magnesium	<b>19.9</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>23.5</b>	0.0500		"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG04@8-9'**  
**2502452-25 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/25/25 12:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.626	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

Date Sampled: **02/25/25 12:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.5		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 12:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.669	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 12:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.94		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG04@9-10'**  
**2502452-26 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 12:54**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIB1477	02/26/25	02/27/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 12:54**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>0.512</b>	0.200	mg/kg dry	1	BIC1445	03/24/25	04/15/25	EPA 6020B	
Barium	<b>55.2</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>1.02</b>	0.400	"	"	"	"	"	"	
Lead	<b>3.58</b>	0.200	"	"	"	"	"	"	
Nickel	<b>1.37</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	<b>4.62</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 12:54**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0236	03/05/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 12:54**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>42.1</b>	0.0500	mg/L dry	1	BIC1426	03/24/25	04/03/25	EPA 6020B	
Magnesium	<b>14.3</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>75.4</b>	0.0500	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG04@9-10'**  
**2502452-26 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/25/25 12:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.56	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

Date Sampled: **02/25/25 12:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.7		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 12:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.667	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 12:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.22		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG05@2-3'**  
**2502452-27 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 12:56**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BIB1477	02/26/25	02/27/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 12:56**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	<b>0.720</b>	0.200	mg/kg dry	1	BIC1445	03/24/25	04/15/25	EPA 6020B	
Barium	<b>49.9</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>1.24</b>	0.400	"	"	"	"	"	"	
Lead	<b>3.86</b>	0.200	"	"	"	"	"	"	
Nickel	<b>1.59</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0343</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>5.75</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 12:56**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0236	03/05/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 12:56**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>67.9</b>	0.0500	mg/L dry	1	BIC1426	03/24/25	04/03/25	EPA 6020B	
Magnesium	<b>18.5</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>1.31</b>	0.0500	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG05@2-3'**  
**2502452-27 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/25/25 12:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0364	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

Date Sampled: **02/25/25 12:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.5		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 12:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0554	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 12:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.92		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG05@5-6'**  
**2502452-28 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 12:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIB1477	02/26/25	02/27/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 12:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>0.578</b>	0.200		mg/kg dry	1	BIC1445	03/24/25	04/15/25	EPA 6020B	
Barium	<b>76.2</b>	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	<b>1.33</b>	0.400		"	"	"	"	"	"	
Lead	<b>4.65</b>	0.200		"	"	"	"	"	"	
Nickel	<b>1.70</b>	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	<b>6.31</b>	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 12:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIC0236	03/05/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 12:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>35.4</b>	0.0500		mg/L dry	1	BIC1426	03/24/25	04/03/25	EPA 6020B	
Magnesium	<b>17.3</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>156</b>	0.0500		"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG05@5-6'**  
**2502452-28 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/25/25 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.37	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

Date Sampled: **02/25/25 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.2		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.966	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.31		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG05@6-7'**  
**2502452-29 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIB1477	02/26/25	02/27/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>0.526</b>	0.200	mg/kg dry	1	BIC1445	03/24/25	04/15/25	EPA 6020B	
Barium	<b>59.6</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>0.913</b>	0.400	"	"	"	"	"	"	
Lead	<b>3.78</b>	0.200	"	"	"	"	"	"	
Nickel	<b>1.46</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	<b>4.19</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0236	03/05/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>95.4</b>	0.0500	mg/L dry	1	BIC1426	03/24/25	04/03/25	EPA 6020B	
Magnesium	<b>29.8</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>2.88</b>	0.0500	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG05@6-7'**  
**2502452-29 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/25/25 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0660	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

Date Sampled: **02/25/25 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.5		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0596	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.88		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG05@8-9'**  
**2502452-30 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 13:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BIB1477	02/26/25	02/27/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 13:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	<b>0.752</b>	0.200	mg/kg dry	1	BIC1445	03/24/25	04/15/25	EPA 6020B	
Barium	<b>79.4</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>1.40</b>	0.400	"	"	"	"	"	"	
Lead	<b>3.92</b>	0.200	"	"	"	"	"	"	
Nickel	<b>1.63</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0242</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>5.71</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 13:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0236	03/05/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 13:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>143</b>	0.0500	mg/L dry	1	BIC1426	03/24/25	04/03/25	EPA 6020B	
Magnesium	<b>41.7</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>99.1</b>	0.0500	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG05@8-9'**  
**2502452-30 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/25/25 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.88	0.00100	units	1	BID0188	04/03/25	04/07/25	Calculation	

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

Date Sampled: **02/25/25 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.6		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.52	0.0100	mmhos/cm	1	BIC1427	03/24/25	04/01/25	EPA 120.1	

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

Date Sampled: **02/25/25 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.89		pH Units	1	BIC1428	03/24/25	04/01/25	EPA 9045D	

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG05@9-10'**  
**2502452-31 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/25 13:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BIB1477	02/26/25	02/27/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/25 13:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	<b>0.471</b>	0.200	mg/kg dry	1	BIC1445	03/24/25	04/15/25	EPA 6020B	
Barium	<b>79.1</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>1.29</b>	0.400	"	"	"	"	"	"	
Lead	<b>4.90</b>	0.200	"	"	"	"	"	"	
Nickel	<b>1.92</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0214</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>5.91</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/25 13:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0236	03/05/25	03/06/25	EPA 7196A	

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

Date Sampled: **02/25/25 13:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>353</b>	0.0500	mg/L dry	1	BIC1446	03/24/25	04/15/25	EPA 6020B	
Magnesium	<b>53.0</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>105</b>	0.0500	"	"	"	"	"	"	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**BKG05@9-10'**  
**2502452-31 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/25/25 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.38	0.00100	units	1	BID0940	04/16/25	04/16/25	Calculation	

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

Date Sampled: **02/25/25 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.4		%	1	BIB1612	02/27/25	02/27/25	Calculation	

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

Date Sampled: **02/25/25 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.62	0.0100	mmhos/cm	1	BIC1448	03/24/25	03/30/25	EPA 120.1	

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

Date Sampled: **02/25/25 13:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.55		pH Units	1	BIC1447	03/24/25	03/30/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

## 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 BIC0516 - EPA 5030 Soil MS

##### Blank (BIC0516-BLK1)

Prepared: 03/10/25 Analyzed: 03/30/25

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	0.0381		"	0.0400		95.3	50-150			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0369		"	0.0400		92.2	50-150			

##### LCS (BIC0516-BS1)

Prepared: 03/10/25 Analyzed: 03/30/25

Benzene	0.0962	0.0020	mg/kg	0.100		96.2	70-130			
Toluene	0.105	0.0050	"	0.100		105	70-130			
Ethylbenzene	0.0990	0.0050	"	0.100		99.0	70-130			
m,p-Xylene	0.189	0.010	"	0.200		94.6	70-130			
o-Xylene	0.0945	0.0050	"	0.100		94.5	70-130			
1,2,4-Trimethylbenzene	0.0950	0.0050	"	0.100		95.0	70-130			
1,3,5-Trimethylbenzene	0.0945	0.0050	"	0.100		94.5	70-130			
Naphthalene	0.0732	0.0038	"	0.100		73.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0404		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0420		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0361		"	0.0400		90.2	50-150			

##### Matrix Spike (BIC0516-MS1)

Source: 2502452-01

Prepared: 03/10/25 Analyzed: 04/03/25

Benzene	0.0813	0.0020	mg/kg	0.100	ND	81.3	70-130			
Toluene	0.0418	0.0050	"	0.100	ND	41.8	70-130			QM-05
Ethylbenzene	0.00447	0.0050	"	0.100	ND	4.47	70-130			QM-05
m,p-Xylene	0.0107	0.010	"	0.200	ND	5.34	70-130			QM-05
o-Xylene	0.0833	0.0050	"	0.100	ND	83.3	70-130			
1,2,4-Trimethylbenzene	ND	0.0050	"	0.100	ND		70-130			QM-05
1,3,5-Trimethylbenzene	0.0800	0.0050	"	0.100	ND	80.0	70-130			
Naphthalene	0.00438	0.0038	"	0.100	ND	4.38	70-130			QM-05
Surrogate: 1,2-Dichloroethane-d4	0.0434		"	0.0400		109	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0414		"	0.0400		104	50-150			

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**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 BIC0516 - EPA 5030 Soil MS**

Matrix Spike Dup (BIC0516-MSD1)		Source: 2502452-01			Prepared: 03/10/25 Analyzed: 04/03/25					
Benzene	0.0834	0.0020	mg/kg	0.100	ND	83.4	70-130	2.59	30	
Toluene	0.0514	0.0050	"	0.100	ND	51.4	70-130	20.6	30	QM-05
Ethylbenzene	0.00867	0.0050	"	0.100	ND	8.67	70-130	63.9	30	QM-05
m,p-Xylene	0.0409	0.010	"	0.200	ND	20.5	70-130	117	30	QM-05
o-Xylene	0.0869	0.0050	"	0.100	ND	86.9	70-130	4.27	30	
1,2,4-Trimethylbenzene	0.0312	0.0050	"	0.100	ND	31.2	70-130	200	30	QM-05
1,3,5-Trimethylbenzene	0.0885	0.0050	"	0.100	ND	88.5	70-130	10.0	30	
Naphthalene	0.00606	0.0038	"	0.100	ND	6.06	70-130	32.2	30	QM-05
Surrogate: 1,2-Dichloroethane-d4		0.0443	"	0.0400		111	50-150			
Surrogate: Toluene-d8		0.0403	"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene		0.0412	"	0.0400		103	50-150			

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**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 BIC0524 - EPA 3550A**

**Blank (BIC0524-BLK1)**

Prepared: 03/10/25 Analyzed: 04/11/25

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	11.0		"	12.5		87.9	50-140			

**LCS (BIC0524-BS1)**

Prepared: 03/10/25 Analyzed: 04/11/25

C10-C28 (DRO)	439	50	mg/kg	500		87.9	50-140			
Surrogate: o-Terphenyl	11.9		"	12.5		94.9	50-140			

**Matrix Spike (BIC0524-MS1)**

Source: 2502452-01

Prepared: 03/10/25 Analyzed: 04/11/25

C10-C28 (DRO)	397	50	mg/kg	500	ND	79.4	50-140			
Surrogate: o-Terphenyl	10.8		"	12.5		86.1	50-140			

**Matrix Spike Dup (BIC0524-MSD1)**

Source: 2502452-01

Prepared: 03/10/25 Analyzed: 04/11/25

C10-C28 (DRO)	374	50	mg/kg	500	ND	74.8	50-140	5.93	20	
Surrogate: o-Terphenyl	9.57		"	12.5		76.6	50-140			

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

## 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

#### Batch BIC0368 - EPA 5030 Soil MS

##### Blank (BIC0368-BLK1)

Prepared: 03/06/25 Analyzed: 03/13/25

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	0.0285		"	0.0333		85.6		40-140			
Surrogate: Fluoranthene-d10	0.0263		"	0.0333		79.0		40-140			

##### LCS (BIC0368-BS1)

Prepared: 03/06/25 Analyzed: 03/13/25

Acenaphthene	0.0238	0.00500	mg/kg	0.0333		71.4		40-140			
Anthracene	0.0238	0.00500	"	0.0333		71.3		40-140			
Benzo (a) anthracene	0.0249	0.00500	"	0.0333		74.6		40-140			
Benzo (a) pyrene	0.0242	0.00500	"	0.0333		72.7		40-140			
Benzo (b) fluoranthene	0.0248	0.00500	"	0.0333		74.4		40-140			
Benzo (k) fluoranthene	0.0245	0.00500	"	0.0333		73.6		40-140			
Chrysene	0.0244	0.00500	"	0.0333		73.3		40-140			
Dibenz (a,h) anthracene	0.0247	0.00500	"	0.0333		74.1		40-140			
Fluoranthene	0.0243	0.00500	"	0.0333		72.8		40-140			
Fluorene	0.0236	0.00500	"	0.0333		70.9		40-140			
Indeno (1,2,3-cd) pyrene	0.0160	0.00500	"	0.0333		48.1		40-140			
Pyrene	0.0238	0.00500	"	0.0333		71.4		40-140			
1-Methylnaphthalene	0.0253	0.00500	"	0.0333		75.8		40-140			
2-Methylnaphthalene	0.0259	0.00500	"	0.0333		77.7		40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0471		"	0.0333		141		40-140			QLCS-01
Surrogate: Fluoranthene-d10	0.0457		"	0.0333		137		40-140			

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

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

### Summit Scientific

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

#### Batch BIC0368 - EPA 5030 Soil MS

##### Matrix Spike (BIC0368-MS1)

Source: 2502440-01

Prepared: 03/06/25 Analyzed: 03/13/25

Acenaphthene	0.0174	0.00500	mg/kg	0.0333	ND	52.3	40-140		
Anthracene	0.0177	0.00500	"	0.0333	ND	53.2	40-140		
Benzo (a) anthracene	0.0182	0.00500	"	0.0333	ND	54.7	40-140		
Benzo (a) pyrene	0.0180	0.00500	"	0.0333	ND	54.1	40-140		
Benzo (b) fluoranthene	0.0184	0.00500	"	0.0333	ND	55.3	40-140		
Benzo (k) fluoranthene	0.0181	0.00500	"	0.0333	ND	54.4	40-140		
Chrysene	0.0179	0.00500	"	0.0333	ND	53.6	40-140		
Dibenz (a,h) anthracene	0.0172	0.00500	"	0.0333	ND	51.6	40-140		
Fluoranthene	0.0181	0.00500	"	0.0333	ND	54.4	40-140		
Fluorene	0.0176	0.00500	"	0.0333	ND	52.7	40-140		
Indeno (1,2,3-cd) pyrene	0.0163	0.00500	"	0.0333	ND	49.0	40-140		
Pyrene	0.0178	0.00500	"	0.0333	ND	53.3	40-140		
1-Methylnaphthalene	0.0188	0.00500	"	0.0333	ND	56.4	40-140		
2-Methylnaphthalene	0.0193	0.00500	"	0.0333	ND	57.9	40-140		
Surrogate: 2-Methylnaphthalene-d10	0.0352		"	0.0333		106	40-140		
Surrogate: Fluoranthene-d10	0.0334		"	0.0333		100	40-140		

##### Matrix Spike Dup (BIC0368-MSD1)

Source: 2502440-01

Prepared: 03/06/25 Analyzed: 03/14/25

Acenaphthene	0.0192	0.00500	mg/kg	0.0333	ND	57.6	40-140	9.63	30
Anthracene	0.0194	0.00500	"	0.0333	ND	58.1	40-140	8.64	30
Benzo (a) anthracene	0.0199	0.00500	"	0.0333	ND	59.8	40-140	8.81	30
Benzo (a) pyrene	0.0196	0.00500	"	0.0333	ND	58.8	40-140	8.18	30
Benzo (b) fluoranthene	0.0200	0.00500	"	0.0333	ND	59.9	40-140	7.96	30
Benzo (k) fluoranthene	0.0202	0.00500	"	0.0333	ND	60.7	40-140	10.9	30
Chrysene	0.0199	0.00500	"	0.0333	ND	59.8	40-140	10.8	30
Dibenz (a,h) anthracene	0.0183	0.00500	"	0.0333	ND	54.8	40-140	6.05	30
Fluoranthene	0.0195	0.00500	"	0.0333	ND	58.5	40-140	7.32	30
Fluorene	0.0191	0.00500	"	0.0333	ND	57.2	40-140	8.22	30
Indeno (1,2,3-cd) pyrene	0.0168	0.00500	"	0.0333	ND	50.4	40-140	2.82	30
Pyrene	0.0196	0.00500	"	0.0333	ND	58.7	40-140	9.61	30
1-Methylnaphthalene	0.0203	0.00500	"	0.0333	ND	60.9	40-140	7.69	30
2-Methylnaphthalene	0.0205	0.00500	"	0.0333	ND	61.6	40-140	6.23	30
Surrogate: 2-Methylnaphthalene-d10	0.0370		"	0.0333		111	40-140		
Surrogate: Fluoranthene-d10	0.0345		"	0.0333		103	40-140		

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**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 BIB1477 - EPA 3050B**

**Blank (BIB1477-BLK1)**

Prepared: 02/26/25 Analyzed: 02/27/25

Boron ND 2.00 mg/L

**LCS (BIB1477-BS1)**

Prepared: 02/26/25 Analyzed: 02/27/25

Boron 5.85 2.00 mg/L 5.00 117 80-120

**Duplicate (BIB1477-DUP1)**

Source: 2502430-01

Prepared: 02/26/25 Analyzed: 02/27/25

Boron 0.293 2.00 mg/L 0.282 3.89 20

**Matrix Spike (BIB1477-MS1)**

Source: 2502430-01

Prepared: 02/26/25 Analyzed: 02/27/25

Boron 5.12 2.00 mg/L 4.99 0.282 96.9 75-125

**Matrix Spike Dup (BIB1477-MSD1)**

Source: 2502430-01

Prepared: 02/26/25 Analyzed: 02/27/25

Boron 5.52 2.00 mg/L 4.99 0.282 105 75-125 7.51 25

**Batch BIC0977 - EPA 3050B**

**Blank (BIC0977-BLK1)**

Prepared: 03/17/25 Analyzed: 03/20/25

Boron ND 2.00 mg/L

**LCS (BIC0977-BS1)**

Prepared: 03/17/25 Analyzed: 03/20/25

Boron 4.95 2.00 mg/L 5.00 99.0 80-120

**Duplicate (BIC0977-DUP1)**

Source: 2502428-07

Prepared: 03/17/25 Analyzed: 03/20/25

Boron 0.292 2.00 mg/L 0.347 17.1 20

**Matrix Spike (BIC0977-MS1)**

Source: 2502428-07

Prepared: 03/17/25 Analyzed: 03/20/25

Boron 5.34 2.00 mg/L 5.00 0.347 99.8 75-125

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**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 BIC0977 - EPA 3050B**

**Matrix Spike Dup (BIC0977-MSD1)**

**Source: 2502428-07**

Prepared: 03/17/25 Analyzed: 03/20/25

Boron	5.32	2.00	mg/L	5.00	0.347	99.4	75-125	0.419	25
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**Batch BIC0978 - EPA 3050B**

**Blank (BIC0978-BLK1)**

Prepared: 03/17/25 Analyzed: 03/21/25

Boron	ND	2.00	mg/L
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**LCS (BIC0978-BS1)**

Prepared: 03/17/25 Analyzed: 03/21/25

Boron	5.02	2.00	mg/L	5.00	100	80-120
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**Duplicate (BIC0978-DUP1)**

**Source: 2502452-06**

Prepared: 03/17/25 Analyzed: 03/21/25

Boron	0.0701	2.00	mg/L	0.0726	3.53	20
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**Matrix Spike (BIC0978-MS1)**

**Source: 2502452-06**

Prepared: 03/17/25 Analyzed: 03/21/25

Boron	5.02	2.00	mg/L	4.99	0.0726	99.2	75-125
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**Matrix Spike Dup (BIC0978-MSD1)**

**Source: 2502452-06**

Prepared: 03/17/25 Analyzed: 03/21/25

Boron	5.14	2.00	mg/L	4.99	0.0726	101	75-125	2.23	25
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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**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 BIC1444 - EPA 3050B**

**Blank (BIC1444-BLK1)**

Prepared: 03/24/25 Analyzed: 04/15/25

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 (BIC1444-BS1)**

Prepared: 03/24/25 Analyzed: 04/15/25

Arsenic	40.5	0.200	mg/kg wet	41.7	97.2	80-120
Barium	36.7	0.400	"	41.7	88.2	80-120
Cadmium	1.76	0.200	"	2.08	84.2	80-120
Copper	40.0	0.400	"	41.7	96.0	80-120
Lead	18.5	0.200	"	20.8	88.9	80-120
Nickel	39.7	0.400	"	41.7	95.2	80-120
Silver	1.83	0.0200	"	2.08	87.9	80-120
Zinc	39.1	0.400	"	41.7	93.8	80-120
Selenium	4.40	0.260	"	4.17	106	80-120

**Duplicate (BIC1444-DUP1)**

Source: 2502452-01

Prepared: 03/24/25 Analyzed: 04/15/25

Arsenic	0.464	0.200	mg/kg dry	0.468	0.741	20
Barium	45.2	0.400	"	43.5	3.84	20
Cadmium	0.0359	0.200	"	0.0272	27.4	20
Copper	0.920	0.400	"	0.922	0.188	20
Lead	3.00	0.200	"	2.73	9.48	20
Nickel	1.17	0.400	"	1.21	3.64	20
Silver	0.0121	0.0200	"	0.0104	15.4	20
Zinc	4.21	0.400	"	4.06	3.69	20
Selenium	ND	0.260	"	ND		20

QR-01

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

### 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 BIC1444 - EPA 3050B

Matrix Spike (BIC1444-MS1)		Source: 2502452-01			Prepared: 03/24/25 Analyzed: 04/15/25					
Arsenic	16.3	0.200	mg/kg dry	43.6	0.468	36.4	75-125			QM-05
Barium	73.7	0.400	"	43.6	43.5	69.4	75-125			QM-05
Cadmium	1.72	0.200	"	2.18	0.0272	77.7	75-125			
Copper	16.7	0.400	"	43.6	0.922	36.2	75-125			QM-05
Lead	19.6	0.200	"	21.8	2.73	77.6	75-125			
Nickel	16.9	0.400	"	43.6	1.21	36.0	75-125			QM-05
Silver	1.73	0.0200	"	2.18	0.0104	79.0	75-125			
Zinc	19.9	0.400	"	43.6	4.06	36.3	75-125			QM-05
Selenium	4.01	0.260	"	4.36	ND	92.0	75-125			

Matrix Spike Dup (BIC1444-MSD1)		Source: 2502452-01			Prepared: 03/24/25 Analyzed: 04/15/25					
Arsenic	14.4	0.200	mg/kg dry	41.5	0.468	33.5	75-125	12.6	25	QM-05
Barium	80.2	0.400	"	41.5	43.5	88.5	75-125	8.49	25	
Cadmium	1.85	0.200	"	2.08	0.0272	87.8	75-125	7.35	25	
Copper	14.8	0.400	"	41.5	0.922	33.3	75-125	12.3	25	QM-05
Lead	20.6	0.200	"	20.8	2.73	86.2	75-125	5.01	25	
Nickel	15.1	0.400	"	41.5	1.21	33.5	75-125	11.1	25	QM-05
Silver	1.81	0.0200	"	2.08	0.0104	86.8	75-125	4.58	25	
Zinc	17.8	0.400	"	41.5	4.06	33.1	75-125	10.9	25	QM-05
Selenium	3.52	0.260	"	4.15	ND	84.8	75-125	12.9	25	

#### Batch BIC1445 - EPA 3050B

Blank (BIC1445-BLK1)		Prepared: 03/24/25 Analyzed: 04/15/25								
Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**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 BIC1445 - EPA 3050B**

**LCS (BIC1445-BS1)**

Prepared: 03/24/25 Analyzed: 04/15/25

Arsenic	36.8	0.200	mg/kg wet	38.5		95.7	80-120			
Barium	34.4	0.400	"	38.5		89.6	80-120			
Cadmium	1.68	0.200	"	1.92		87.2	80-120			
Copper	36.9	0.400	"	38.5		95.8	80-120			
Lead	17.2	0.200	"	19.2		89.6	80-120			
Nickel	36.4	0.400	"	38.5		94.8	80-120			
Silver	1.71	0.0200	"	1.92		89.0	80-120			
Zinc	35.5	0.400	"	38.5		92.3	80-120			
Selenium	4.14	0.260	"	3.85		108	80-120			

**Duplicate (BIC1445-DUP1)**

Source: 2502452-20

Prepared: 03/24/25 Analyzed: 04/15/25

Arsenic	0.876	0.200	mg/kg dry		0.865			1.21	20	
Barium	198	0.400	"		165			17.9	20	
Cadmium	0.234	0.200	"		0.211			10.7	20	
Copper	2.05	0.400	"		2.06			0.489	20	
Lead	9.33	0.200	"		8.97			3.93	20	
Nickel	2.65	0.400	"		2.61			1.35	20	
Silver	0.0525	0.0200	"		0.0417			22.9	20	QR-04
Zinc	7.34	0.400	"		7.54			2.68	20	
Selenium	ND	0.260	"		ND				20	

**Matrix Spike (BIC1445-MS1)**

Source: 2502452-20

Prepared: 03/24/25 Analyzed: 04/15/25

Arsenic	8.43	0.200	mg/kg dry	46.1	0.865	16.4	75-125			QM-05
Barium	210	0.400	"	46.1	165	97.9	75-125			
Cadmium	2.21	0.200	"	2.31	0.211	86.8	75-125			
Copper	10.3	0.400	"	46.1	2.06	17.9	75-125			QM-05
Lead	27.6	0.200	"	23.1	8.97	80.9	75-125			
Nickel	10.9	0.400	"	46.1	2.61	17.9	75-125			QM-05
Silver	2.14	0.0200	"	2.31	0.0417	91.0	75-125			
Zinc	15.3	0.400	"	46.1	7.54	16.8	75-125			QM-05
Selenium	3.66	0.260	"	4.61	ND	79.3	75-125			

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**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 BIC1445 - EPA 3050B**

**Matrix Spike Dup (BIC1445-MSD1)**

**Source: 2502452-20**

Prepared: 03/24/25 Analyzed: 04/15/25

Arsenic	7.89	0.200	mg/kg dry	43.3	0.865	16.2	75-125	6.60	25	QM-05
Barium	201	0.400	"	43.3	165	83.3	75-125	4.42	25	
Cadmium	2.21	0.200	"	2.16	0.211	92.4	75-125	0.0658	25	
Copper	9.66	0.400	"	43.3	2.06	17.6	75-125	6.65	25	QM-05
Lead	26.0	0.200	"	21.6	8.97	78.8	75-125	5.96	25	
Nickel	10.0	0.400	"	43.3	2.61	17.1	75-125	8.13	25	QM-05
Silver	2.06	0.0200	"	2.16	0.0417	93.1	75-125	4.01	25	
Zinc	14.8	0.400	"	43.3	7.54	16.7	75-125	3.65	25	QM-05
Selenium	3.43	0.260	"	4.33	ND	79.3	75-125	6.40	25	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**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 BIC0207 - 3060A Mod**

**Blank (BIC0207-BLK1)** Prepared: 03/04/25 Analyzed: 03/06/25

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BIC0207-BS1)** Prepared: 03/04/25 Analyzed: 03/06/25

Chromium, Hexavalent 22.2 0.30 mg/kg wet 23.8 93.4 80-120

**Duplicate (BIC0207-DUP1)** **Source: 2502452-01** Prepared: 03/04/25 Analyzed: 03/06/25

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BIC0207-MS1)** **Source: 2502452-01** Prepared: 03/04/25 Analyzed: 03/06/25

Chromium, Hexavalent 24.8 0.30 mg/kg dry 26.1 ND 95.2 75-125

**Matrix Spike Dup (BIC0207-MSD1)** **Source: 2502452-01** Prepared: 03/04/25 Analyzed: 03/06/25

Chromium, Hexavalent 27.8 0.30 mg/kg dry 27.1 ND 102 75-125 11.3 20

**Batch BIC0236 - 3060A Mod**

**Blank (BIC0236-BLK1)** Prepared: 03/05/25 Analyzed: 03/06/25

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BIC0236-BS1)** Prepared: 03/05/25 Analyzed: 03/06/25

Chromium, Hexavalent 25.5 0.30 mg/kg wet 25.8 98.8 80-120

**Duplicate (BIC0236-DUP1)** **Source: 2502452-21** Prepared: 03/05/25 Analyzed: 03/06/25

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BIC0236-MS1)** **Source: 2502452-21** Prepared: 03/05/25 Analyzed: 03/06/25

Chromium, Hexavalent 27.8 0.30 mg/kg dry 28.2 ND 98.6 75-125

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

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

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

**Batch BIC0236 - 3060A Mod**

Matrix Spike Dup (BIC0236-MSD1)		Source: 2502452-21			Prepared: 03/05/25 Analyzed: 03/06/25						
Chromium, Hexavalent		29.3	0.30	mg/kg dry	29.4	ND	99.8	75-125	5.33	20	

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

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

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

**Batch BIC1426 - General Preparation**

**Blank (BIC1426-BLK1)**

Prepared: 03/24/25 Analyzed: 04/02/25

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

**LCS (BIC1426-BS1)**

Prepared: 03/24/25 Analyzed: 04/02/25

Calcium	4.71	0.0500	mg/L wet	5.00	94.2	70-130
Magnesium	5.40	0.0500	"	5.00	108	70-130
Sodium	5.39	0.0500	"	5.00	108	70-130

**Batch BIC1446 - General Preparation**

**Blank (BIC1446-BLK1)**

Prepared: 03/24/25 Analyzed: 04/15/25

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

**LCS (BIC1446-BS1)**

Prepared: 03/24/25 Analyzed: 04/15/25

Calcium	5.90	0.0500	mg/L wet	5.00	118	70-130
Magnesium	5.41	0.0500	"	5.00	108	70-130
Sodium	5.37	0.0500	"	5.00	107	70-130

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

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

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

**Batch BIB1612 - General Preparation**

Duplicate (BIB1612-DUP1)		Source: 2502452-01		Prepared & Analyzed: 02/27/25						
% Solids	94.0		%		94.1			0.0649	20	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery  
Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

**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 BIC1427 - General Preparation**

**Blank (BIC1427-BLK1)**

Prepared: 03/24/25 Analyzed: 04/01/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BIC1427-BS1)**

Prepared: 03/24/25 Analyzed: 04/01/25

Specific Conductance (EC) 0.149 0.0100 mmhos/cm 0.150 99.5 95-105

**Duplicate (BIC1427-DUP1)**

**Source: 2502452-01**

Prepared: 03/24/25 Analyzed: 04/01/25

Specific Conductance (EC) 0.0969 0.0100 mmhos/cm 0.0986 1.69 20

**Batch BIC1448 - General Preparation**

**Blank (BIC1448-BLK1)**

Prepared: 03/24/25 Analyzed: 03/30/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BIC1448-BS1)**

Prepared: 03/24/25 Analyzed: 03/30/25

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 95-105

**Duplicate (BIC1448-DUP1)**

**Source: 2502452-31**

Prepared: 03/24/25 Analyzed: 03/30/25

Specific Conductance (EC) 1.58 0.0100 mmhos/cm 1.62 2.19 20

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

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

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

**Batch BIC1428 - General Preparation**

**LCS (BIC1428-BS1)**

Prepared: 03/24/25 Analyzed: 04/01/25

pH	9.10		pH Units	9.18		99.1	95-105		
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**Duplicate (BIC1428-DUP1)**

**Source: 2502452-01**

Prepared: 03/24/25 Analyzed: 04/01/25

pH	7.01		pH Units		7.48			6.49	20
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**Batch BIC1447 - General Preparation**

**LCS (BIC1447-BS1)**

Prepared: 03/24/25 Analyzed: 03/30/25

pH	9.12		pH Units	9.18		99.3	95-105		
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**Duplicate (BIC1447-DUP1)**

**Source: 2502452-31**

Prepared: 03/24/25 Analyzed: 03/30/25

pH	8.28		pH Units		8.55			3.21	20
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Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Diller 42-13 Tank Battery

Project Number: [none]  
Project Manager: Mike Medina

**Reported:**  
04/18/25 10:25

### 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.
QR-01	Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
QLCS-01	The spike recovery was outside acceptance limits for this analyte indicating a potential high bias. The corresponding samples did not exhibit concentrations above reporting level for this analyte. Data quality is not affected.
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