

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 27, 2025

Mike Medina

Tasman Geosciences

4725 Independence St.

Wheat Ridge, CO 80033

RE: Noble - Darlene Dinnel 01

Work Order #2504312

Enclosed are the results of analyses for samples received by Summit Scientific on 04/17/25 18:22. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and "W".

Jacob Wood For Paul Shrewsbury

President

Please Note - Out-of-Hold Results Included:

The 8260B GBTEXN 915 analyses were analyzed outside of allotted holding times due to delays at Summit Scientific.



Tasman Geosciences
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
 Project Number: UWRWE-A3075-ABN
 Project Manager: Mike Medina

Reported:
 06/27/25 07:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB04@5-6'	2504312-01	Soil	04/17/25 14:25	04/17/25 18:22
SB04@6-7'	2504312-02	Soil	04/17/25 14:27	04/17/25 18:22
SB05@5-6'	2504312-03	Soil	04/17/25 12:00	04/17/25 18:22
SB06@3.5-4.5'	2504312-04	Soil	04/17/25 11:30	04/17/25 18:22
SB06@6-7'	2504312-05	Soil	04/17/25 13:15	04/17/25 18:22
SB06@9-10'	2504312-06	Soil	04/17/25 11:32	04/17/25 18:22
SB07@3.5-4.5'	2504312-07	Soil	04/17/25 10:45	04/17/25 18:22
SB08@3.5-4.5'	2504312-08	Soil	04/17/25 13:50	04/17/25 18:22
SB09@2.5-3.5'	2504312-09	Soil	04/17/25 11:45	04/17/25 18:22
SB09@5-6'	2504312-10	Soil	04/17/25 11:47	04/17/25 18:22
SB11@6-7'	2504312-11	Soil	04/17/25 14:45	04/17/25 18:22


Case Narrative

The 8260B GBTEXN 915 analyses were completed outside of allotted holding times due to delays at Summit Scientific.

This report has been revised to include the proper hold-time qualifiers.

This is a revision of the report originally sent on 05/30/2025 at 11:54 AM MT.

Summit Scientific



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

Lab ID	Page 1 of 1
2 504312	

Client: Noble / Tasman		Send Data To: Project Manager: Mike Medina		Send Invoice To: Company: Noble Energy	
Address: 4725 Independence St.		E-Mail: danpeterson@chevron.com; tas-chevron-2@tasman-geo.com;		Project Name/Location: Darlene Dinnel 2	
City/State/Zip: Wheat Ridge / CO / 80033		rbueuf27@chevron.com		AFE#:	
Phone: 303-487-1228		Project Name: Darlene Dinnel 2		PO/Billing Codes:	
Sampler Name: E. Gooding-Lord, J. Llewellyn		Project Number:		Contact: Dan Peterson	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested						Special Instructions			
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN - 8260B	1,2,4 & 1,3,5-TMB	TDS, Cl, SO4	Full 915-1 Suite		pH, EC, SAR, boron	Table 915-1 Metals	
1	SB04 @ 5-6'	↓	1425	2			X			X										
2	SB04 @ 6-7'		1427																	
3	SB05 @ 5-6'		1200																	
4	SB06 @ 3.5-4.5'		1130																	
5	SB06 @ 6-7'		1315																	
6	SB06 @ 9-10'		1132																	
7	SB07 @ 3.5-4.5'		1045																	
8	SB08 @ 3.5-4.5'		1350																	
9	SB09 @ 2.5-3.5'		1145																	
10	SB09 @ 5-6'		1147																	
11	SB11 @ 6-7'		1445																	
12																				
13																				
14																				
15																				

Relinquished by: E. Gooding-Lord	Date/Time: 04/17/25 1615	Received by: Tasman Lockbox	Date/Time: 04/17/25 1615	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: Tasman Lockbox	Date/Time: 4/17/25 1822	Received by:	Date/Time: 4/17/25 1822	1 Day	Field ORP	
				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: 5.6	Corrected Temperature: 5	IR gun #:	1	HNO3 lot #:		

S₂

S2 Work Order# 2504312

Sample Receipt Checklist

Client: Noble Tasman Client Project ID: Parlene Dinnel 1Received Via: H.D./E.U./FedEx/UPS/USPS/Other Airbill #: _____Matrix (Circle all that apply) Air/Soil/Water/Other Temp (°C) 3.6 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? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	-			ON ICE
If custody seals are present, are they intact? ⁽¹⁾	-			
Are samples due within 48 hours?		-		
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD, Total Residual Chlorine (TRC)		-		
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	-			
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	-			
Were all samples received intact? ⁽¹⁾	✓			
Was adequate sample volume provided? ⁽¹⁾	✓			
Were samples provided in appropriate bottle ware?	✓			
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	✓			
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			✓	
Are any samples/bottles preserved (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.			✓	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Are there requested analysis that cannot be performed by S2? Note analysis in the comments column		✓		
Additional Comments (if any):				

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

Control Form #: SRC-001

AS
Custodian Printed Name

4/17/25
Date/Time



Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01

Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB04@5-6'
2504312-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

I-02

Date Sampled: **04/17/25 14:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg dry	1	BID1270	04/23/25	05/15/25	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: **04/17/25 14:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0516	108 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0495	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0491	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/17/25 14:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg dry	1	BID1272	04/23/25	05/18/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/17/25 14:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	10.8	71.9 %	50-140		"	"	"	"	

PAH by EPA Method 8270E SIM

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2504312-01 (Soil)

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PAH by EPA Method 8270E SIM

Date Sampled: **04/17/25 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg dry	1	BID1354	04/25/25	05/19/25	EPA 8270E 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: **04/17/25 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0283	70.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0289	72.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/17/25 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID1098	04/21/25	04/22/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/17/25 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB04@5-6'
2504312-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.15	0.200	mg/kg dry	1	BID1116	04/21/25	05/28/25	EPA 6020B	
Barium	66.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	5.29	0.400	"	"	"	"	"	"	
Lead	5.03	0.200	"	"	"	"	"	"	
Nickel	5.82	0.400	"	"	"	"	"	"	
Silver	0.0267	0.0200	"	"	"	"	"	"	
Zinc	24.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/17/25 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID1117	04/21/25	04/21/25	Hach 8000	

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

Date Sampled: **04/17/25 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	59.6	0.0500	mg/L dry	1	BID1143	04/21/25	04/26/25	EPA 6020B	
Magnesium	17.5	0.0500	"	"	"	"	"	"	
Sodium	83.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/17/25 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.43	0.00100	units	1	BID1435	04/28/25	04/28/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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SB04@5-6'
2504312-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/17/25 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.5		%	1	BID1054	04/18/25	04/18/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/17/25 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.792	0.0100	mmhos/cm	1	BID1145	04/21/25	04/22/25	EPA 120.1	

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

Date Sampled: **04/17/25 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.93		pH Units	1	BID1144	04/21/25	04/22/25	EPA 9045D	

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Reported:
06/27/25 07:28

SB04@6-7'
2504312-02 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

I-02

Date Sampled: **04/17/25 14:27**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg dry	1	BID1270	04/23/25	05/15/25	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: **04/17/25 14:27**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0531	108 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0512	104 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0493	99.9 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/17/25 14:27**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg dry	1	BID1272	04/23/25	05/18/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/17/25 14:27**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	10.4	67.5 %	50-140	"	"	"	"	"	

PAH by EPA Method 8270E SIM

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SB04@6-7'
2504312-02 (Soil)

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PAH by EPA Method 8270E SIM

Date Sampled: **04/17/25 14:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg dry	1	BID1354	04/25/25	05/19/25	EPA 8270E 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: **04/17/25 14:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0326	79.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0314	76.5 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/17/25 14:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID1099	04/21/25	04/22/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/17/25 14:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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06/27/25 07:28

SB04@6-7'
2504312-02 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.95	0.200	mg/kg dry	1	BID1116	04/21/25	05/28/25	EPA 6020B	
Barium	83.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	9.78	0.400	"	"	"	"	"	"	
Lead	9.48	0.200	"	"	"	"	"	"	
Nickel	11.1	0.400	"	"	"	"	"	"	
Silver	0.0255	0.0200	"	"	"	"	"	"	
Zinc	33.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/17/25 14:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID1117	04/21/25	04/21/25	Hach 8000	

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

Date Sampled: **04/17/25 14:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	31.8	0.0500	mg/L dry	1	BID1143	04/21/25	04/26/25	EPA 6020B	
Magnesium	11.9	0.0500	"	"	"	"	"	"	
Sodium	86.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/17/25 14:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.30	0.00100	units	1	BID1435	04/28/25	04/28/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Reported:
06/27/25 07:28

SB04@6-7'
2504312-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/17/25 14:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.1		%	1	BID1054	04/18/25	04/18/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/17/25 14:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.687	0.0100	mmhos/cm	1	BID1145	04/21/25	04/22/25	EPA 120.1	

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

Date Sampled: **04/17/25 14:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.97		pH Units	1	BID1144	04/21/25	04/22/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB05@5-6'
2504312-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

I-02

Date Sampled: **04/17/25 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg dry	1	BID1270	04/23/25	05/15/25	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: **04/17/25 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0538	112 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0528	110 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0488	101 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/17/25 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg dry	1	BID1272	04/23/25	05/18/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/17/25 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	10.6	70.3 %	50-140	"	"	"	"	"	

PAH by EPA Method 8270E SIM

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB05@5-6'
2504312-03 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

Date Sampled: **04/17/25 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg dry	1	BID1354	04/25/25	05/17/25	EPA 8270E 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: **04/17/25 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0293	72.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0299	74.6 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/17/25 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID1099	04/21/25	04/22/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/17/25 12:00**

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 - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB05@5-6'
2504312-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.35	0.200	mg/kg dry	1	BID1116	04/21/25	05/28/25	EPA 6020B	
Barium	67.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.66	0.400	"	"	"	"	"	"	
Lead	3.94	0.200	"	"	"	"	"	"	
Nickel	8.03	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	40.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/17/25 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID1117	04/21/25	04/21/25	Hach 8000	

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

Date Sampled: **04/17/25 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	325	0.0500	mg/L dry	1	BID1143	04/21/25	04/26/25	EPA 6020B	
Magnesium	62.5	0.0500	"	"	"	"	"	"	
Sodium	23.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/17/25 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.311	0.00100	units	1	BID1435	04/28/25	04/28/25	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 - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB05@5-6'
2504312-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/17/25 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.0		%	1	BID1054	04/18/25	04/18/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/17/25 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.270	0.0100	mmhos/cm	1	BID1145	04/21/25	04/22/25	EPA 120.1	

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

Date Sampled: **04/17/25 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.08		pH Units	1	BID1144	04/21/25	04/22/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB06@3.5-4.5'
2504312-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

I-02

Date Sampled: **04/17/25 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg dry	1	BID1270	04/23/25	05/15/25	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: **04/17/25 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0517	107 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0478	99.3 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0485	101 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/17/25 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg dry	1	BID1272	04/23/25	05/18/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/17/25 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	11.9	79.2 %	50-140	"	"	"	"	"	

PAH by EPA Method 8270E SIM

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB06@3.5-4.5'
2504312-04 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

Date Sampled: **04/17/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg dry	1	BID1354	04/25/25	05/17/25	EPA 8270E 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: **04/17/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0290	72.2 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0305	75.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/17/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID1099	04/21/25	04/22/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/17/25 11:30**

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 - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB06@3.5-4.5'
2504312-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.17	0.200	mg/kg dry	1	BID1116	04/21/25	05/28/25	EPA 6020B	
Barium	62.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.91	0.400	"	"	"	"	"	"	
Lead	4.21	0.200	"	"	"	"	"	"	
Nickel	5.46	0.400	"	"	"	"	"	"	
Silver	0.0226	0.0200	"	"	"	"	"	"	
Zinc	23.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/17/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID1117	04/21/25	04/21/25	Hach 8000	

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

Date Sampled: **04/17/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	37.5	0.0500	mg/L dry	1	BID1143	04/21/25	04/26/25	EPA 6020B	
Magnesium	140	0.0500	"	"	"	"	"	"	
Sodium	157	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/17/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.64	0.00100	units	1	BID1435	04/28/25	04/28/25	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 - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB06@3.5-4.5'
2504312-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/17/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.0		%	1	BID1054	04/18/25	04/18/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/17/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.630	0.0100	mmhos/cm	1	BID1145	04/21/25	04/22/25	EPA 120.1	

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

Date Sampled: **04/17/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.52		pH Units	1	BID1144	04/21/25	04/22/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB06@6-7'
2504312-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

I-02

Date Sampled: **04/17/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg dry	1	BID1270	04/23/25	05/15/25	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: **04/17/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0618	105 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0614	104 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0605	102 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/17/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg dry	1	BID1272	04/23/25	05/18/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/17/25 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	13.9	75.2 %	50-140	"	"	"	"	"	

PAH by EPA Method 8270E SIM

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB06@6-7'
2504312-05 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

Date Sampled: **04/17/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg dry	1	BID1354	04/25/25	05/17/25	EPA 8270E 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: **04/17/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0300	61.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0280	56.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/17/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID1099	04/21/25	04/22/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/17/25 13:15**

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 - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB06@6-7'
2504312-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.626	0.200	mg/kg dry	1	BID1116	04/21/25	05/28/25	EPA 6020B	
Barium	113	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	8.20	0.400	"	"	"	"	"	"	
Lead	11.0	0.200	"	"	"	"	"	"	
Nickel	5.25	0.400	"	"	"	"	"	"	
Silver	0.0206	0.0200	"	"	"	"	"	"	
Zinc	15.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/17/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID1117	04/21/25	04/21/25	Hach 8000	

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

Date Sampled: **04/17/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	82.5	0.0500	mg/L dry	1	BID1143	04/21/25	04/26/25	EPA 6020B	
Magnesium	12.1	0.0500	"	"	"	"	"	"	
Sodium	107	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/17/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.91	0.00100	units	1	BID1435	04/28/25	04/28/25	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 - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB06@6-7'
2504312-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/17/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	67.7		%	1	BID1054	04/18/25	04/18/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/17/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.667	0.0100	mmhos/cm	1	BID1145	04/21/25	04/22/25	EPA 120.1	

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

Date Sampled: **04/17/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.94		pH Units	1	BID1144	04/21/25	04/22/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB06@9-10'
2504312-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

I-02

Date Sampled: **04/17/25 11:32**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg dry	1	BID1270	04/23/25	05/15/25	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: **04/17/25 11:32**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0509	99.3 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0496	96.8 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0498	97.0 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/17/25 11:32**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg dry	1	BID1272	04/23/25	05/19/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/17/25 11:32**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	10.6	66.4 %	50-140	"	"	"	"	"	

PAH by EPA Method 8270E SIM

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB06@9-10'
2504312-06 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

Date Sampled: **04/17/25 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg dry	1	BID1354	04/25/25	05/17/25	EPA 8270E 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: **04/17/25 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0282	66.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0283	66.2 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/17/25 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID1099	04/21/25	04/22/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/17/25 11:32**

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 - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB06@9-10'
2504312-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.38	0.200	mg/kg dry	1	BID1116	04/21/25	05/28/25	EPA 6020B	
Barium	22.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.72	0.400	"	"	"	"	"	"	
Lead	3.36	0.200	"	"	"	"	"	"	
Nickel	10.5	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	55.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/17/25 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID1117	04/21/25	04/21/25	Hach 8000	

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

Date Sampled: **04/17/25 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	13.5	0.0500	mg/L dry	1	BID1143	04/21/25	04/26/25	EPA 6020B	
Magnesium	6.92	0.0500	"	"	"	"	"	"	
Sodium	78.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/17/25 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.32	0.00100	units	1	BID1435	04/28/25	04/28/25	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 - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB06@9-10'
2504312-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/17/25 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.0		%	1	BID1054	04/18/25	04/18/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/17/25 11:32**

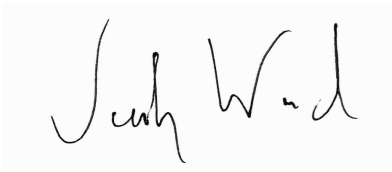
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.486	0.0100	mmhos/cm	1	BID1145	04/21/25	04/22/25	EPA 120.1	

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

Date Sampled: **04/17/25 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.30		pH Units	1	BID1144	04/21/25	04/22/25	EPA 9045D	

Summit Scientific



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Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB07@3.5-4.5'
2504312-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

I-02

Date Sampled: **04/17/25 10:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg dry	1	BID1270	04/23/25	05/15/25	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: **04/17/25 10:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0489	107 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0481	105 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0488	107 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/17/25 10:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg dry	1	BID1272	04/23/25	05/19/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/17/25 10:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	9.55	66.6 %	50-140	"	"	"	"	"	

PAH by EPA Method 8270E SIM

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB07@3.5-4.5'
2504312-07 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

Date Sampled: **04/17/25 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg dry	1	BID1354	04/25/25	05/17/25	EPA 8270E 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: **04/17/25 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0261	68.4 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0279	73.0 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/17/25 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID1099	04/21/25	04/22/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/17/25 10:45**

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 - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB07@3.5-4.5'
2504312-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.15	0.200	mg/kg dry	1	BID1116	04/21/25	05/28/25	EPA 6020B	
Barium	70.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	6.13	0.400	"	"	"	"	"	"	
Lead	5.62	0.200	"	"	"	"	"	"	
Nickel	7.71	0.400	"	"	"	"	"	"	
Silver	0.0358	0.0200	"	"	"	"	"	"	
Zinc	32.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/17/25 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID1117	04/21/25	04/21/25	Hach 8000	

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

Date Sampled: **04/17/25 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	26.9	0.0500	mg/L dry	1	BID1143	04/21/25	04/26/25	EPA 6020B	
Magnesium	142	0.0500	"	"	"	"	"	"	
Sodium	139	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/17/25 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.37	0.00100	units	1	BID1435	04/28/25	04/28/25	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 - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB07@3.5-4.5'
2504312-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/17/25 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.3		%	1	BID1054	04/18/25	04/18/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/17/25 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.727	0.0100	mmhos/cm	1	BID1145	04/21/25	04/22/25	EPA 120.1	

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

Date Sampled: **04/17/25 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.78		pH Units	1	BID1144	04/21/25	04/22/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB08@3.5-4.5'
2504312-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

I-02

Date Sampled: **04/17/25 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg dry	1	BID1270	04/23/25	05/15/25	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: **04/17/25 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0469	101 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0475	103 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0479	104 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/17/25 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg dry	1	BID1272	04/23/25	05/19/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/17/25 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	13.0	89.7 %	50-140	"	"	"	"	"	

PAH by EPA Method 8270E SIM

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB08@3.5-4.5'
2504312-08 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

Date Sampled: **04/17/25 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg dry	1	BID1354	04/25/25	05/17/25	EPA 8270E 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: **04/17/25 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0310	80.4 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0324	84.0 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/17/25 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID1099	04/21/25	04/22/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/17/25 13:50**

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 - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB08@3.5-4.5'
2504312-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.02	0.200	mg/kg dry	1	BID1116	04/21/25	05/28/25	EPA 6020B	
Barium	58.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	5.39	0.400	"	"	"	"	"	"	
Lead	4.88	0.200	"	"	"	"	"	"	
Nickel	5.92	0.400	"	"	"	"	"	"	
Silver	0.0818	0.0200	"	"	"	"	"	"	
Zinc	25.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/17/25 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID1117	04/21/25	04/21/25	Hach 8000	

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

Date Sampled: **04/17/25 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	26.2	0.0500	mg/L dry	1	BID1143	04/21/25	04/26/25	EPA 6020B	
Magnesium	69.9	0.0500	"	"	"	"	"	"	
Sodium	75.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/17/25 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.74	0.00100	units	1	BID1435	04/28/25	04/28/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB08@3.5-4.5'
2504312-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/17/25 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.4		%	1	BID1054	04/18/25	04/18/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/17/25 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.371	0.0100	mmhos/cm	1	BID1145	04/21/25	04/22/25	EPA 120.1	

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

Date Sampled: **04/17/25 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.24		pH Units	1	BID1144	04/21/25	04/22/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB09@2.5-3.5'
2504312-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

I-02

Date Sampled: **04/17/25 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg dry	1	BID1270	04/23/25	05/15/25	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: **04/17/25 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0496	109 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0468	102 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0485	106 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/17/25 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg dry	1	BID1272	04/23/25	05/19/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/17/25 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	10.1	70.6 %	50-140	"	"	"	"	"	

PAH by EPA Method 8270E SIM

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB09@2.5-3.5'
2504312-09 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

Date Sampled: **04/17/25 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg dry	1	BID1354	04/25/25	05/17/25	EPA 8270E 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: **04/17/25 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0281	74.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0286	75.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/17/25 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID1099	04/21/25	04/22/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/17/25 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 - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB09@2.5-3.5'
2504312-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.19	0.200	mg/kg dry	1	BID1116	04/21/25	05/28/25	EPA 6020B	
Barium	55.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.57	0.400	"	"	"	"	"	"	
Lead	4.11	0.200	"	"	"	"	"	"	
Nickel	4.12	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	20.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/17/25 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID1117	04/21/25	04/21/25	Hach 8000	

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

Date Sampled: **04/17/25 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	228	0.0500	mg/L dry	1	BID1143	04/21/25	04/26/25	EPA 6020B	
Magnesium	99.0	0.0500	"	"	"	"	"	"	
Sodium	60.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/17/25 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.845	0.00100	units	1	BID1435	04/28/25	04/28/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB09@2.5-3.5'
2504312-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/17/25 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.7		%	1	BID1054	04/18/25	04/18/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/17/25 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.373	0.0100	mmhos/cm	1	BID1145	04/21/25	04/22/25	EPA 120.1	

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

Date Sampled: **04/17/25 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.49		pH Units	1	BID1144	04/21/25	04/22/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB09@5-6'
2504312-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

I-02

Date Sampled: **04/17/25 11:47**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg dry	1	BID1270	04/23/25	05/15/25	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: **04/17/25 11:47**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0506	106 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0469	98.3 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0499	105 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/17/25 11:47**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg dry	1	BID1272	04/23/25	05/19/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/17/25 11:47**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	10.9	72.9 %	50-140	"	"	"	"	"	

PAH by EPA Method 8270E SIM

Summit Scientific

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4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB09@5-6'
2504312-10 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

Date Sampled: **04/17/25 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg dry	1	BID1354	04/25/25	05/17/25	EPA 8270E 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: **04/17/25 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0274	69.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0278	70.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/17/25 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID1099	04/21/25	04/22/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/17/25 11:47**

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 - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB09@5-6'
2504312-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.75	0.200	mg/kg dry	1	BID1116	04/21/25	05/28/25	EPA 6020B	
Barium	61.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	5.47	0.400	"	"	"	"	"	"	
Lead	5.77	0.200	"	"	"	"	"	"	
Nickel	5.28	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	24.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/17/25 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID1117	04/21/25	04/21/25	Hach 8000	

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

Date Sampled: **04/17/25 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	73.3	0.0500	mg/L dry	1	BID1143	04/21/25	04/26/25	EPA 6020B	
Magnesium	10.7	0.0500	"	"	"	"	"	"	
Sodium	47.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/17/25 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.36	0.00100	units	1	BID1435	04/28/25	04/28/25	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 - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB09@5-6'
2504312-10 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/17/25 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.9		%	1	BID1054	04/18/25	04/18/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/17/25 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.368	0.0100	mmhos/cm	1	BID1145	04/21/25	04/22/25	EPA 120.1	

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

Date Sampled: **04/17/25 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.43		pH Units	1	BID1144	04/21/25	04/22/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB11@6-7'
2504312-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

I-02

Date Sampled: **04/17/25 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg dry	1	BID1270	04/23/25	05/15/25	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: **04/17/25 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0527	104 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0525	104 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0531	105 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/17/25 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg dry	1	BID1272	04/23/25	05/19/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/17/25 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	11.8	74.6 %	50-140	"	"	"	"	"	

PAH by EPA Method 8270E SIM

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB11@6-7'
2504312-11 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

Date Sampled: **04/17/25 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg dry	1	BID1354	04/25/25	05/17/25	EPA 8270E 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: **04/17/25 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0295	69.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0321	76.0 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/17/25 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID1099	04/21/25	04/22/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/17/25 14:45**

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 - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB11@6-7'
2504312-11 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.50	0.200	mg/kg dry	1	BID1116	04/21/25	05/28/25	EPA 6020B	
Barium	39.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.45	0.400	"	"	"	"	"	"	
Lead	4.62	0.200	"	"	"	"	"	"	
Nickel	12.3	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	45.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/17/25 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID1117	04/21/25	04/21/25	Hach 8000	

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

Date Sampled: **04/17/25 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	30.1	0.0500	mg/L dry	1	BID1143	04/21/25	04/26/25	EPA 6020B	
Magnesium	12.0	0.0500	"	"	"	"	"	"	
Sodium	95.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/17/25 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.72	0.00100	units	1	BID1435	04/28/25	04/28/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

SB11@6-7'
2504312-11 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/17/25 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.0		%	1	BID1054	04/18/25	04/18/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/17/25 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.707	0.0100	mmhos/cm	1	BID1145	04/21/25	04/22/25	EPA 120.1	

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

Date Sampled: **04/17/25 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.29		pH Units	1	BID1144	04/21/25	04/22/25	EPA 9045D	

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01

Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BID1270 - EPA 5030 Soil MS

Blank (BID1270-BLK1)

Prepared: 04/23/25 Analyzed: 05/15/25

Benzene	ND	0.0020	mg/kg wet							
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	0.0391		"	0.0400		97.8	50-150			
Surrogate: Toluene-d8	0.0421		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.5	50-150			

LCS (BID1270-BS1)

Prepared: 04/23/25 Analyzed: 05/15/25

Benzene	0.101	0.0020	mg/kg wet	0.100		101	70-130			
Toluene	0.101	0.0050	"	0.100		101	70-130			
Ethylbenzene	0.105	0.0050	"	0.100		105	70-130			
m,p-Xylene	0.209	0.010	"	0.200		105	70-130			
o-Xylene	0.0987	0.0050	"	0.100		98.7	70-130			
1,2,4-Trimethylbenzene	0.103	0.0050	"	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.104	0.0050	"	0.100		104	70-130			
Naphthalene	0.0856	0.0038	"	0.100		85.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0374		"	0.0400		93.4	50-150			
Surrogate: Toluene-d8	0.0397		"	0.0400		99.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		99.0	50-150			

Matrix Spike (BID1270-MS1)

Source: 2504318-01

Prepared: 04/23/25 Analyzed: 05/15/25

Benzene	0.114	0.0020	mg/kg dry	0.108	ND	105	70-130			
Toluene	0.113	0.0050	"	0.108	ND	104	70-130			
Ethylbenzene	0.112	0.0050	"	0.108	ND	104	70-130			
m,p-Xylene	0.220	0.010	"	0.216	ND	102	70-130			
o-Xylene	0.104	0.0050	"	0.108	ND	96.6	70-130			
1,2,4-Trimethylbenzene	0.107	0.0050	"	0.108	ND	99.1	70-130			
1,3,5-Trimethylbenzene	0.114	0.0050	"	0.108	ND	105	70-130			
Naphthalene	0.0871	0.0038	"	0.108	ND	80.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0436		"	0.0432		101	50-150			
Surrogate: Toluene-d8	0.0463		"	0.0432		107	50-150			
Surrogate: 4-Bromofluorobenzene	0.0432		"	0.0432		100	50-150			

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

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

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

Batch BID1270 - EPA 5030 Soil MS

Matrix Spike Dup (BID1270-MSD1)	Source: 2504318-01			Prepared: 04/23/25 Analyzed: 05/15/25						
Benzene	0.103	0.0020	mg/kg dry	0.108	ND	95.0	70-130	10.1	30	
Toluene	0.102	0.0050	"	0.108	ND	94.4	70-130	10.0	30	
Ethylbenzene	0.108	0.0050	"	0.108	ND	99.6	70-130	4.04	30	
m,p-Xylene	0.209	0.010	"	0.216	ND	96.6	70-130	5.10	30	
o-Xylene	0.0998	0.0050	"	0.108	ND	92.4	70-130	4.44	30	
1,2,4-Trimethylbenzene	0.0971	0.0050	"	0.108	ND	89.9	70-130	9.72	30	
1,3,5-Trimethylbenzene	0.109	0.0050	"	0.108	ND	101	70-130	3.87	30	
Naphthalene	0.0909	0.0038	"	0.108	ND	84.2	70-130	4.33	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0423</i>		<i>"</i>	<i>0.0432</i>		<i>97.8</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0408</i>		<i>"</i>	<i>0.0432</i>		<i>94.5</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0426</i>		<i>"</i>	<i>0.0432</i>		<i>98.6</i>	<i>50-150</i>			

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BID1272 - EPA 3550A

Blank (BID1272-BLK1)

Prepared: 04/23/25 Analyzed: 05/18/25

C10-C28 (DRO)	ND	50	mg/kg wet								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.4		"	12.5		107	50-140				

LCS (BID1272-BS1)

Prepared: 04/23/25 Analyzed: 05/18/25

C10-C28 (DRO)	439	50	mg/kg wet	500		87.8	50-140				
Surrogate: <i>o</i> -Terphenyl	13.1		"	12.5		105	50-140				

Matrix Spike (BID1272-MS1)

Source: 2504312-01

Prepared: 04/23/25 Analyzed: 05/18/25

C10-C28 (DRO)	560	50	mg/kg dry	599	33.1	88.0	50-140				
Surrogate: <i>o</i> -Terphenyl	12.7		"	15.0		84.7	50-140				

Matrix Spike Dup (BID1272-MSD1)

Source: 2504312-01

Prepared: 04/23/25 Analyzed: 05/18/25

C10-C28 (DRO)	483	50	mg/kg dry	599	33.1	75.2	50-140	14.8	20		
Surrogate: <i>o</i> -Terphenyl	12.6		"	15.0		83.9	50-140				

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

PAH by EPA Method 8270E SIM - Quality Control
Summit Scientific

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

Batch BID1354 - EPA 5030 Soil MS

Blank (BID1354-BLK1)

Prepared: 04/25/25 Analyzed: 05/18/25

Acenaphthene	ND	0.00500	mg/kg wet							
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	0.0224		"	0.0333		67.3	40-140			
Surrogate: Fluoranthene-d10	0.0271		"	0.0333		81.2	40-140			

LCS (BID1354-BS1)

Prepared: 04/25/25 Analyzed: 05/18/25

Acenaphthene	0.0244	0.00500	mg/kg wet	0.0333		73.2	40-140			
Anthracene	0.0243	0.00500	"	0.0333		73.0	40-140			
Benzo (a) anthracene	0.0244	0.00500	"	0.0333		73.1	40-140			
Benzo (a) pyrene	0.0241	0.00500	"	0.0333		72.4	40-140			
Benzo (b) fluoranthene	0.0266	0.00500	"	0.0333		79.9	40-140			
Benzo (k) fluoranthene	0.0266	0.00500	"	0.0333		79.7	40-140			
Chrysene	0.0253	0.00500	"	0.0333		75.8	40-140			
Dibenz (a,h) anthracene	0.0269	0.00500	"	0.0333		80.6	40-140			
Fluoranthene	0.0244	0.00500	"	0.0333		73.2	40-140			
Fluorene	0.0249	0.00500	"	0.0333		74.8	40-140			
Indeno (1,2,3-cd) pyrene	0.0259	0.00500	"	0.0333		77.7	40-140			
Pyrene	0.0256	0.00500	"	0.0333		76.9	40-140			
1-Methylnaphthalene	0.0216	0.00500	"	0.0333		64.8	40-140			
2-Methylnaphthalene	0.0215	0.00500	"	0.0333		64.6	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0249		"	0.0333		74.8	40-140			
Surrogate: Fluoranthene-d10	0.0266		"	0.0333		79.9	40-140			

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

PAH by EPA Method 8270E SIM - Quality Control

Summit Scientific

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

Batch BID1354 - EPA 5030 Soil MS

Matrix Spike (BID1354-MS1)		Source: 2504312-01			Prepared: 04/25/25 Analyzed: 05/19/25	
Acenaphthene	0.0267	0.00500	mg/kg dry	0.0399	ND	66.8 40-140
Anthracene	0.0256	0.00500	"	0.0399	ND	64.1 40-140
Benzo (a) anthracene	0.0220	0.00500	"	0.0399	ND	55.1 40-140
Benzo (a) pyrene	0.0242	0.00500	"	0.0399	ND	60.7 40-140
Benzo (b) fluoranthene	0.0258	0.00500	"	0.0399	ND	64.5 40-140
Benzo (k) fluoranthene	0.0257	0.00500	"	0.0399	ND	64.3 40-140
Chrysene	0.0252	0.00500	"	0.0399	ND	63.0 40-140
Dibenz (a,h) anthracene	0.0248	0.00500	"	0.0399	ND	62.0 40-140
Fluoranthene	0.0256	0.00500	"	0.0399	ND	64.0 40-140
Fluorene	0.0274	0.00500	"	0.0399	ND	68.7 40-140
Indeno (1,2,3-cd) pyrene	0.0245	0.00500	"	0.0399	ND	61.3 40-140
Pyrene	0.0288	0.00500	"	0.0399	ND	72.2 40-140
1-Methylnaphthalene	0.0250	0.00500	"	0.0399	ND	62.5 40-140
2-Methylnaphthalene	0.0251	0.00500	"	0.0399	ND	62.9 40-140
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0283</i>		<i>"</i>	<i>0.0399</i>		<i>70.9 40-140</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0279</i>		<i>"</i>	<i>0.0399</i>		<i>69.8 40-140</i>

Matrix Spike Dup (BID1354-MSD1)		Source: 2504312-01			Prepared: 04/25/25 Analyzed: 05/19/25	
Acenaphthene	0.0252	0.00500	mg/kg dry	0.0399	ND	63.2 40-140 5.47 30
Anthracene	0.0243	0.00500	"	0.0399	ND	60.8 40-140 5.31 30
Benzo (a) anthracene	0.0211	0.00500	"	0.0399	ND	52.8 40-140 4.25 30
Benzo (a) pyrene	0.0239	0.00500	"	0.0399	ND	59.9 40-140 1.42 30
Benzo (b) fluoranthene	0.0258	0.00500	"	0.0399	ND	64.5 40-140 0.0124 30
Benzo (k) fluoranthene	0.0255	0.00500	"	0.0399	ND	64.0 40-140 0.608 30
Chrysene	0.0247	0.00500	"	0.0399	ND	61.8 40-140 1.97 30
Dibenz (a,h) anthracene	0.0251	0.00500	"	0.0399	ND	62.8 40-140 1.17 30
Fluoranthene	0.0247	0.00500	"	0.0399	ND	62.0 40-140 3.26 30
Fluorene	0.0259	0.00500	"	0.0399	ND	64.9 40-140 5.69 30
Indeno (1,2,3-cd) pyrene	0.0235	0.00500	"	0.0399	ND	58.9 40-140 3.94 30
Pyrene	0.0272	0.00500	"	0.0399	ND	68.1 40-140 5.81 30
1-Methylnaphthalene	0.0230	0.00500	"	0.0399	ND	57.7 40-140 8.03 30
2-Methylnaphthalene	0.0233	0.00500	"	0.0399	ND	58.3 40-140 7.61 30
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0267</i>		<i>"</i>	<i>0.0399</i>		<i>66.9 40-140</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0273</i>		<i>"</i>	<i>0.0399</i>		<i>68.4 40-140</i>

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

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

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

Batch BID1098 - EPA 3050B

Blank (BID1098-BLK1)											
						Prepared: 04/21/25 Analyzed: 04/22/25					
Boron	ND	2.00	mg/L wet								
LCS (BID1098-BS1)											
						Prepared: 04/21/25 Analyzed: 04/22/25					
Boron	5.16	2.00	mg/L wet	5.00		103	80-120				
Duplicate (BID1098-DUP1)											
						Source: 2504310-07 Prepared: 04/21/25 Analyzed: 04/22/25					
Boron	0.0928	2.00	mg/L dry		0.100			7.59	20		
Matrix Spike (BID1098-MS1)											
						Source: 2504310-07 Prepared: 04/21/25 Analyzed: 04/22/25					
Boron	5.47	2.00	mg/L dry	5.17	0.100	104	75-125				
Matrix Spike Dup (BID1098-MSD1)											
						Source: 2504310-07 Prepared: 04/21/25 Analyzed: 04/22/25					
Boron	5.44	2.00	mg/L dry	5.17	0.100	103	75-125	0.403	25		

Batch BID1099 - EPA 3050B

Blank (BID1099-BLK1)											
						Prepared: 04/21/25 Analyzed: 04/22/25					
Boron	ND	2.00	mg/L wet								
LCS (BID1099-BS1)											
						Prepared: 04/21/25 Analyzed: 04/22/25					
Boron	5.31	2.00	mg/L wet	5.00		106	80-120				
Duplicate (BID1099-DUP1)											
						Source: 2504312-02 Prepared: 04/21/25 Analyzed: 04/22/25					
Boron	1.01	2.00	mg/L dry		1.06			4.86	20		
Matrix Spike (BID1099-MS1)											
						Source: 2504312-02 Prepared: 04/21/25 Analyzed: 04/22/25					
Boron	7.18	2.00	mg/L dry	6.17	1.06	99.2	75-125				

Summit Scientific

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Tasman Geosciences
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
 Project Number: UWRWE-A3075-ABN
 Project Manager: Mike Medina

Reported:
 06/27/25 07:28

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

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

Batch BID1099 - EPA 3050B

Matrix Spike Dup (BID1099-MSD1)

Source: 2504312-02

Prepared: 04/21/25 Analyzed: 04/22/25

Boron	7.29	2.00	mg/L dry	6.17	1.06	101	75-125	1.59	25	
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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BID1116 - EPA 3050B

Blank (BID1116-BLK1)

Prepared: 04/21/25 Analyzed: 05/29/25

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 (BID1116-BS1)

Prepared: 04/21/25 Analyzed: 05/28/25

Arsenic	40.5	0.200	mg/kg wet	40.3	100	80-120
Barium	38.6	0.400	"	40.3	95.7	80-120
Cadmium	1.87	0.200	"	2.02	92.9	80-120
Copper	40.3	0.400	"	40.3	100	80-120
Lead	19.1	0.200	"	20.2	94.9	80-120
Nickel	40.1	0.400	"	40.3	99.4	80-120
Silver	1.90	0.0200	"	2.02	94.5	80-120
Zinc	39.7	0.400	"	40.3	98.5	80-120
Selenium	4.01	0.260	"	4.03	99.5	80-120

Duplicate (BID1116-DUP1)

Source: 2504310-20

Prepared: 04/21/25 Analyzed: 05/28/25

Arsenic	0.863	0.200	mg/kg dry	0.757	13.1	20
Barium	46.0	0.400	"	43.3	6.09	20
Cadmium	0.0432	0.200	"	0.0435	0.803	20
Copper	3.76	0.400	"	3.82	1.41	20
Lead	3.68	0.200	"	3.51	4.64	20
Nickel	3.66	0.400	"	3.61	1.32	20
Silver	0.0191	0.0200	"	0.0159	18.3	20
Zinc	19.6	0.400	"	17.0	13.7	20
Selenium	ND	0.260	"	ND		20

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01

Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BID1116 - EPA 3050B

Matrix Spike (BID1116-MS1)	Source: 2504310-20			Prepared: 04/21/25 Analyzed: 05/28/25								
Arsenic	22.0	0.200	mg/kg dry	41.2	0.757	51.7	75-125					QM-05
Barium	85.9	0.400	"	41.2	43.3	103	75-125					
Cadmium	2.01	0.200	"	2.06	0.0435	95.8	75-125					
Copper	44.1	0.400	"	41.2	3.82	98.0	75-125					
Lead	23.0	0.200	"	20.6	3.51	94.9	75-125					
Nickel	44.4	0.400	"	41.2	3.61	99.0	75-125					
Silver	1.91	0.0200	"	2.06	0.0159	91.9	75-125					
Zinc	59.4	0.400	"	41.2	17.0	103	75-125					
Selenium	3.87	0.260	"	4.12	ND	94.1	75-125					

Matrix Spike Dup (BID1116-MSD1)	Source: 2504310-20			Prepared: 04/21/25 Analyzed: 05/28/25								
Arsenic	22.4	0.200	mg/kg dry	41.2	0.757	52.5	75-125	1.47	25			QM-05
Barium	92.3	0.400	"	41.2	43.3	119	75-125	7.21	25			
Cadmium	2.10	0.200	"	2.06	0.0435	100	75-125	4.28	25			
Copper	44.2	0.400	"	41.2	3.82	98.2	75-125	0.237	25			
Lead	23.6	0.200	"	20.6	3.51	97.4	75-125	2.17	25			
Nickel	44.5	0.400	"	41.2	3.61	99.3	75-125	0.298	25			
Silver	2.00	0.0200	"	2.06	0.0159	96.3	75-125	4.64	25			
Zinc	59.1	0.400	"	41.2	17.0	102	75-125	0.518	25			
Selenium	3.75	0.260	"	4.12	ND	91.0	75-125	3.33	25			

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

Hexavalent Chromium by HACH M8023 - Quality Control
Summit Scientific

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

Batch BID1117 - 3060A Mod

Blank (BID1117-BLK1)

Prepared & Analyzed: 04/21/25

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BID1117-BS1)

Prepared & Analyzed: 04/21/25

Chromium, Hexavalent 24.5 0.30 mg/kg wet 24.5 100 80-120

Duplicate (BID1117-DUP1)

Source: 2504296-01

Prepared & Analyzed: 04/21/25

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BID1117-MS1)

Source: 2504296-01

Prepared & Analyzed: 04/21/25

Chromium, Hexavalent 25.7 0.30 mg/kg dry 29.2 ND 88.0 75-125

Matrix Spike Dup (BID1117-MSD1)

Source: 2504296-01

Prepared & Analyzed: 04/21/25

Chromium, Hexavalent 23.1 0.30 mg/kg dry 28.9 ND 79.8 75-125 10.8 20

Summit Scientific

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Tasman Geosciences
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
 Project Number: UWRWE-A3075-ABN
 Project Manager: Mike Medina

Reported:
 06/27/25 07:28

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

Summit Scientific

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

Batch BID1143 - General Preparation

Blank (BID1143-BLK1)

Prepared: 04/21/25 Analyzed: 04/26/25

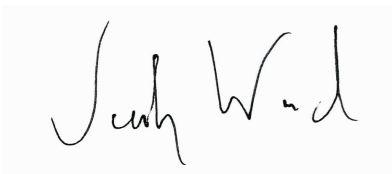
Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

LCS (BID1143-BS1)

Prepared: 04/21/25 Analyzed: 04/26/25

Calcium	5.81	0.0500	mg/L wet	5.00	116	70-130
Magnesium	4.92	0.0500	"	5.00	98.4	70-130
Sodium	4.95	0.0500	"	5.00	99.0	70-130

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Tasman Geosciences
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01

Project Number: UWRWE-A3075-ABN
 Project Manager: Mike Medina

Reported:
 06/27/25 07:28

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

Summit Scientific

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

Batch BID1054 - General Preparation

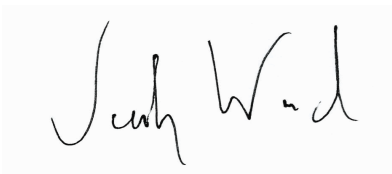
Duplicate (BID1054-DUP1)

Source: 2504303-02

Prepared & Analyzed: 04/18/25

% Solids	77.4		%		79.5			2.70	20	
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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

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

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

Batch BID1145 - General Preparation

Blank (BID1145-BLK1)

Prepared: 04/21/25 Analyzed: 04/22/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BID1145-BS1)

Prepared: 04/21/25 Analyzed: 04/22/25

Specific Conductance (EC) 0.149 0.0100 mmhos/cm 0.150 99.3 95-105

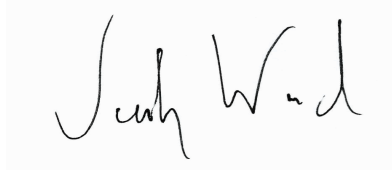
Duplicate (BID1145-DUP1)

Source: 2504312-01

Prepared: 04/21/25 Analyzed: 04/22/25

Specific Conductance (EC) 0.791 0.0100 mmhos/cm 0.792 0.0884 20

Summit Scientific



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Tasman Geosciences
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01
 Project Number: UWRWE-A3075-ABN
 Project Manager: Mike Medina

Reported:
 06/27/25 07:28

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

Summit Scientific

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

Batch BID1144 - General Preparation

LCS (BID1144-BS1)

Prepared: 04/21/25 Analyzed: 04/22/25

pH	9.15	pH Units	9.18	99.7	95-105
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Duplicate (BID1144-DUP1)

Source: 2504312-01

Prepared: 04/21/25 Analyzed: 04/22/25

pH	7.89	pH Units	7.93	0.506	20
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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01

Project Number: UWRWE-A3075-ABN
Project Manager: Mike Medina

Reported:
06/27/25 07:28

Notes and Definitions

- 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.
- I-02 Sample was prepared and/or analyzed outside of holding time.
- 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