

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 03, 2025

Mike Medina

Tasman Geosciences

4725 Independence St.

Wheat Ridge, CO 80033

RE: Noble - Ocoma G25-16

Work Order #2502045

Enclosed are the results of analyses for samples received by Summit Scientific on 02/04/25 18:11. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Natalie Tessier". The signature is written in a cursive, flowing style.

Natalie Tessier For Paul Shrewsbury

President



Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Ocoma G25-16
Project Number: UWRWE-A2940-ABN
Project Manager: Mike Medina

Reported:
04/03/25 14:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB01@9-10	2502045-01	Soil	02/04/25 12:52	02/04/25 18:11
SB01@10-11	2502045-02	Soil	02/04/25 13:45	02/04/25 18:11

Summit Scientific

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Client: Noble / Tasman		Project Manager: Mike Medina		Send Invoice To: Company: Noble Energy	
Address: 6855 W 119th Ave		E-Mail: jason.davidson@chevron.com; tas-chevron-2@tasman-geo.com; rbueuf27@chevron.com		Project Name/Location: <u>OCOMA G25-16</u>	
City/State/Zip: Broomfield / CO / 80020		Project Name: <u>OCOMA G25-16</u>		AFE#:	
Phone: 303-487-1228		Project Number:		PO/Billing Codes:	
Sampler Name: <u>M. D. Iger, J. Meier</u>				Contact: Jason Davidson	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil		Other	BTEXN - 8260B	1,2,4 & 1,3,5-TMB	TDS, Cl, SO4	Full 915-1 Suite*	pH, EC, SAR, boron	
1	SB01@9-10	02/04/25	1252	2			X			X					X			
2	SB01@10-11	↓	1345	↓			↓								↓			
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by: <u>Tasman lockbox</u>	Date/Time: <u>02/04/25 1455</u>	Received by: <u>Tasman lockbox</u>	Date/Time: <u>02/04/25 1455</u>	TAT Business Days	Field DO	Notes: *PAHs, inorganics, metals on 48hour turn around	
				Same Day	X		Field EC
Relinquished by: <u>Tasman lockbox</u>	Date/Time: <u>2/4/25 1811</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/4/25 1811</u>	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: <u>5.8</u>	Corrected Temperature: <u>8</u>	IR gun #:		HNO3 lot #:			

S₂

S2 Work Order# 2502045

Sample Receipt Checklist

Client: Noble Casman Client Project ID: Ocoma G2S-10

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

Matrix (Circle all that apply) Air/Soil/Water/Other Temp (°C) 5.8 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.	-			<u>on ice</u>
If custody seals are present, are they intact? ⁽¹⁾	-			
Are samples due within 48 hours present?	-			<u>Same day</u>
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD, 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 bottleware?	✓			
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?			✓	
Will any samples be performed outside of Summit Scientific? If yes, note in 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 Name2/4/25
Date/Time



Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Ocoma G25-16
Project Number: UWRWE-A2940-ABN
Project Manager: Mike Medina

Reported:
04/03/25 14:57

SB01@9-10
2502045-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/04/25 12:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BIB0129	02/04/25	02/05/25	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	0.0054	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **02/04/25 12:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0465	116 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0391	97.7 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0407	102 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/04/25 12:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	85	50		mg/kg	1	BIB0131	02/04/25	02/05/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **02/04/25 12:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.05	56.4 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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SB01@9-10
2502045-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/04/25 12:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIB0711	02/13/25	02/19/25	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: **02/04/25 12:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0143	43.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0145	43.5 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/04/25 12:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0153	02/05/25	02/05/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/04/25 12:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SB01@9-10
2502045-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.689	0.200	mg/kg dry	1	BIB0157	02/05/25	02/07/25	EPA 6020B	
Barium	76.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.14	0.400	"	"	"	"	"	"	
Lead	32.3	0.200	"	"	"	"	"	"	
Nickel	3.82	0.400	"	"	"	"	"	"	
Silver	0.0233	0.0200	"	"	"	"	"	"	
Zinc	16.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/04/25 12:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0173	02/05/25	02/05/25	EPA 7196A	

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

Date Sampled: **02/04/25 12:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	108	0.0500	mg/L dry	1	BIB0132	02/04/25	02/05/25	EPA 6020B	
Magnesium	17.8	0.0500	"	"	"	"	"	"	
Sodium	34.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/04/25 12:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.815	0.00100	units	1	BID0185	04/03/25	04/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/04/25 12:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.9		%	1	BIB0141	02/05/25	02/05/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/04/25 12:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.284	0.0100	mmhos/cm	1	BIB0134	02/04/25	02/05/25	EPA 120.1	

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

Date Sampled: **02/04/25 12:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.07		pH Units	1	BIB0133	02/04/25	02/05/25	EPA 9045D	

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SB01@10-11
2502045-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/04/25 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIB0129	02/04/25	02/05/25	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: **02/04/25 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0421	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0382	95.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/04/25 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIB0131	02/04/25	02/05/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/04/25 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.03	56.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PAH by EPA Method 8270D SIM

Date Sampled: **02/04/25 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIB0711	02/13/25	02/19/25	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: **02/04/25 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0222	66.7 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0211	63.3 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/04/25 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0153	02/05/25	02/05/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/04/25 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SB01@10-11
2502045-02 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.528	0.200	mg/kg dry	1	BIB0157	02/05/25	02/07/25	EPA 6020B	
Barium	48.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.41	0.400	"	"	"	"	"	"	
Lead	6.28	0.200	"	"	"	"	"	"	
Nickel	1.62	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	7.72	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/04/25 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0173	02/05/25	02/05/25	EPA 7196A	

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

Date Sampled: **02/04/25 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	155	0.0500	mg/L dry	1	BIB0132	02/04/25	02/05/25	EPA 6020B	
Magnesium	32.2	0.0500	"	"	"	"	"	"	
Sodium	23.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/04/25 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.445	0.00100	units	1	BID0185	04/03/25	04/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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04/03/25 14:57

SB01@10-11
2502045-02 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/04/25 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.9		%	1	BIB0141	02/05/25	02/05/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/04/25 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.280	0.0100	mmhos/cm	1	BIB0134	02/04/25	02/05/25	EPA 120.1	

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

Date Sampled: **02/04/25 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.12		pH Units	1	BIB0133	02/04/25	02/05/25	EPA 9045D	

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Reported:
04/03/25 14:57

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 BIB0129 - EPA 5030 Soil MS

Blank (BIB0129-BLK1)

Prepared: 02/04/25 Analyzed: 02/05/25

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	0.0411		"	0.0400		103	50-150			
Surrogate: Toluene-d8	0.0386		"	0.0400		96.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0368		"	0.0400		92.0	50-150			

LCS (BIB0129-BS1)

Prepared: 02/04/25 Analyzed: 02/05/25

Benzene	0.105	0.0020	mg/kg	0.100		105	70-130			
Toluene	0.101	0.0050	"	0.100		101	70-130			
Ethylbenzene	0.104	0.0050	"	0.100		104	70-130			
m,p-Xylene	0.199	0.010	"	0.200		99.6	70-130			
o-Xylene	0.0982	0.0050	"	0.100		98.2	70-130			
1,2,4-Trimethylbenzene	0.0938	0.0050	"	0.100		93.8	70-130			
1,3,5-Trimethylbenzene	0.0933	0.0050	"	0.100		93.3	70-130			
Naphthalene	0.0967	0.0038	"	0.100		96.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0426		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0377		"	0.0400		94.2	50-150			

Matrix Spike (BIB0129-MS1)

Source: 2502039-02

Prepared: 02/04/25 Analyzed: 02/05/25

Benzene	0.0901	0.0020	mg/kg	0.100	0.00819	81.9	70-130			
Toluene	0.105	0.0050	"	0.100	0.0226	82.1	70-130			
Ethylbenzene	0.0860	0.0050	"	0.100	ND	86.0	70-130			
m,p-Xylene	0.173	0.010	"	0.200	0.00675	83.2	70-130			
o-Xylene	0.0838	0.0050	"	0.100	ND	83.8	70-130			
1,2,4-Trimethylbenzene	0.0742	0.0050	"	0.100	ND	74.2	70-130			
1,3,5-Trimethylbenzene	0.0759	0.0050	"	0.100	ND	75.9	70-130			
Naphthalene	0.0768	0.0038	"	0.100	ND	76.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0415		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0396		"	0.0400		98.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0400		95.7	50-150			

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Ocoma G25-16
Project Number: UWRWE-A2940-ABN
Project Manager: Mike Medina

Reported:
04/03/25 14:57

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 BIB0129 - EPA 5030 Soil MS

Matrix Spike Dup (BIB0129-MSD1)	Source: 2502039-02			Prepared: 02/04/25 Analyzed: 02/05/25						
Benzene	0.0967	0.0020	mg/kg	0.100	0.00819	88.5	70-130	7.03	30	
Toluene	0.112	0.0050	"	0.100	0.0226	89.2	70-130	6.51	30	
Ethylbenzene	0.0881	0.0050	"	0.100	ND	88.1	70-130	2.45	30	
m,p-Xylene	0.177	0.010	"	0.200	0.00675	85.3	70-130	2.38	30	
o-Xylene	0.0855	0.0050	"	0.100	ND	85.5	70-130	1.98	30	
1,2,4-Trimethylbenzene	0.0751	0.0050	"	0.100	ND	75.1	70-130	1.13	30	
1,3,5-Trimethylbenzene	0.0754	0.0050	"	0.100	ND	75.4	70-130	0.714	30	
Naphthalene	0.0796	0.0038	"	0.100	ND	79.6	70-130	3.61	30	
Surrogate: 1,2-Dichloroethane-d4	0.0437		"	0.0400		109	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0379		"	0.0400		94.8	50-150			

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Ocoma G25-16
Project Number: UWRWE-A2940-ABN
Project Manager: Mike Medina

Reported:
04/03/25 14:57

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 BIB0131 - EPA 3550A

Blank (BIB0131-BLK1)

Prepared: 02/04/25 Analyzed: 02/05/25

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.3		"	12.5		107	30-150				

LCS (BIB0131-BS1)

Prepared: 02/04/25 Analyzed: 02/05/25

C10-C28 (DRO)	418	50	mg/kg	500		83.6	70-130				
Surrogate: <i>o</i> -Terphenyl	12.0		"	12.5		95.6	30-150				

Matrix Spike (BIB0131-MS1)

Source: 2502039-02

Prepared: 02/04/25 Analyzed: 02/05/25

C10-C28 (DRO)	419	50	mg/kg	500	ND	83.8	70-130				
Surrogate: <i>o</i> -Terphenyl	8.94		"	12.5		71.5	30-150				

Matrix Spike Dup (BIB0131-MSD1)

Source: 2502039-02

Prepared: 02/04/25 Analyzed: 02/05/25

C10-C28 (DRO)	419	50	mg/kg	500	ND	83.8	70-130	0.0236	20		
Surrogate: <i>o</i> -Terphenyl	8.72		"	12.5		69.8	30-150				

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Ocoma G25-16
Project Number: UWRWE-A2940-ABN
Project Manager: Mike Medina

Reported:
04/03/25 14:57

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BIB0711 - EPA 5030 Soil MS

Blank (BIB0711-BLK1)

Prepared: 02/13/25 Analyzed: 02/18/25

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	0.0202		"	0.0333		60.6	40-140			
Surrogate: Fluoranthene-d10	0.0219		"	0.0333		65.8	40-140			

LCS (BIB0711-BS1)

Prepared: 02/13/25 Analyzed: 02/18/25

Acenaphthene	0.0194	0.00500	mg/kg	0.0333		58.3	40-140			
Anthracene	0.0188	0.00500	"	0.0333		56.4	40-140			
Benzo (a) anthracene	0.0197	0.00500	"	0.0333		59.2	40-140			
Benzo (a) pyrene	0.0192	0.00500	"	0.0333		57.6	40-140			
Benzo (b) fluoranthene	0.0194	0.00500	"	0.0333		58.1	40-140			
Benzo (k) fluoranthene	0.0193	0.00500	"	0.0333		57.8	40-140			
Chrysene	0.0191	0.00500	"	0.0333		57.2	40-140			
Dibenz (a,h) anthracene	0.0193	0.00500	"	0.0333		58.0	40-140			
Fluoranthene	0.0199	0.00500	"	0.0333		59.8	40-140			
Fluorene	0.0200	0.00500	"	0.0333		59.9	40-140			
Indeno (1,2,3-cd) pyrene	0.0202	0.00500	"	0.0333		60.6	40-140			
Pyrene	0.0201	0.00500	"	0.0333		60.2	40-140			
1-Methylnaphthalene	0.0210	0.00500	"	0.0333		62.9	40-140			
2-Methylnaphthalene	0.0206	0.00500	"	0.0333		61.9	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0211		"	0.0333		63.3	40-140			
Surrogate: Fluoranthene-d10	0.0206		"	0.0333		61.8	40-140			

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Ocoma G25-16
Project Number: UWRWE-A2940-ABN
Project Manager: Mike Medina

Reported:
04/03/25 14:57

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BIB0711 - EPA 5030 Soil MS

Matrix Spike (BIB0711-MS1)	Source: 2502033-01			Prepared: 02/13/25 Analyzed: 02/18/25						
Acenaphthene	0.0196	0.00500	mg/kg	0.0333	ND	58.7	40-140			
Anthracene	0.0183	0.00500	"	0.0333	ND	55.0	40-140			
Benzo (a) anthracene	0.0195	0.00500	"	0.0333	ND	58.4	40-140			
Benzo (a) pyrene	0.0182	0.00500	"	0.0333	ND	54.7	40-140			
Benzo (b) fluoranthene	0.0182	0.00500	"	0.0333	ND	54.7	40-140			
Benzo (k) fluoranthene	0.0178	0.00500	"	0.0333	ND	53.5	40-140			
Chrysene	0.0185	0.00500	"	0.0333	ND	55.6	40-140			
Dibenz (a,h) anthracene	0.0203	0.00500	"	0.0333	ND	60.9	40-140			
Fluoranthene	0.0176	0.00500	"	0.0333	ND	52.7	40-140			
Fluorene	0.0190	0.00500	"	0.0333	ND	56.9	40-140			
Indeno (1,2,3-cd) pyrene	0.0139	0.00500	"	0.0333	ND	41.6	40-140			
Pyrene	0.0192	0.00500	"	0.0333	ND	57.5	40-140			
1-Methylnaphthalene	0.0202	0.00500	"	0.0333	ND	60.5	40-140			
2-Methylnaphthalene	0.0202	0.00500	"	0.0333	ND	60.7	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0205</i>		<i>"</i>	<i>0.0333</i>		<i>61.6</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0185</i>		<i>"</i>	<i>0.0333</i>		<i>55.4</i>	<i>40-140</i>			

Matrix Spike Dup (BIB0711-MSD1)	Source: 2502033-01			Prepared: 02/13/25 Analyzed: 02/18/25						
Acenaphthene	0.0146	0.00500	mg/kg	0.0333	ND	43.9	40-140	28.7	30	
Anthracene	0.0146	0.00500	"	0.0333	ND	43.9	40-140	22.6	30	
Benzo (a) anthracene	0.0155	0.00500	"	0.0333	ND	46.4	40-140	22.8	30	
Benzo (a) pyrene	0.0143	0.00500	"	0.0333	ND	42.9	40-140	24.2	30	
Benzo (b) fluoranthene	0.0145	0.00500	"	0.0333	ND	43.5	40-140	22.9	30	
Benzo (k) fluoranthene	0.0141	0.00500	"	0.0333	ND	42.3	40-140	23.5	30	
Chrysene	0.0144	0.00500	"	0.0333	ND	43.1	40-140	25.3	30	
Dibenz (a,h) anthracene	0.0151	0.00500	"	0.0333	ND	45.3	40-140	29.5	30	
Fluoranthene	0.0146	0.00500	"	0.0333	ND	43.8	40-140	18.4	30	
Fluorene	0.0150	0.00500	"	0.0333	ND	45.0	40-140	23.3	30	
Indeno (1,2,3-cd) pyrene	0.0146	0.00500	"	0.0333	ND	43.9	40-140	5.24	30	
Pyrene	0.0154	0.00500	"	0.0333	ND	46.3	40-140	21.5	30	
1-Methylnaphthalene	0.0152	0.00500	"	0.0333	ND	45.7	40-140	27.8	30	
2-Methylnaphthalene	0.0153	0.00500	"	0.0333	ND	45.8	40-140	27.9	30	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0154</i>		<i>"</i>	<i>0.0333</i>		<i>46.1</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0153</i>		<i>"</i>	<i>0.0333</i>		<i>45.9</i>	<i>40-140</i>			

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Ocoma G25-16
Project Number: UWRWE-A2940-ABN
Project Manager: Mike Medina

Reported:
04/03/25 14:57

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

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

Batch BIB0153 - EPA 3050B

Blank (BIB0153-BLK1)

Prepared & Analyzed: 02/05/25

Boron ND 2.00 mg/L

LCS (BIB0153-BS1)

Prepared & Analyzed: 02/05/25

Boron 5.46 2.00 mg/L 5.00 109 80-120

Duplicate (BIB0153-DUP1)

Source: 2502039-05

Prepared & Analyzed: 02/05/25

Boron 0.382 2.00 mg/L 0.372 2.64 20

Matrix Spike (BIB0153-MS1)

Source: 2502039-05

Prepared & Analyzed: 02/05/25

Boron 5.09 2.00 mg/L 5.00 0.372 94.4 75-125

Matrix Spike Dup (BIB0153-MSD1)

Source: 2502039-05

Prepared & Analyzed: 02/05/25

Boron 5.63 2.00 mg/L 5.00 0.372 105 75-125 9.98 25

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Ocoma G25-16
Project Number: UWRWE-A2940-ABN
Project Manager: Mike Medina

Reported:
04/03/25 14:57

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIB0157 - EPA 3050B

Blank (BIB0157-BLK1)

Prepared: 02/05/25 Analyzed: 02/07/25

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 (BIB0157-BS1)

Prepared: 02/05/25 Analyzed: 02/07/25

Arsenic	40.1	0.200	mg/kg wet	41.0	97.9	80-120				
Barium	40.6	0.400	"	41.0	99.0	80-120				
Cadmium	2.03	0.200	"	2.05	99.1	80-120				
Copper	41.6	0.400	"	41.0	101	80-120				
Lead	21.1	0.200	"	20.5	103	80-120				
Nickel	41.8	0.400	"	41.0	102	80-120				
Silver	2.00	0.0200	"	2.05	97.7	80-120				
Zinc	40.7	0.400	"	41.0	99.3	80-120				
Selenium	3.79	0.260	"	4.10	92.4	80-120				

Duplicate (BIB0157-DUP1)

Source: 2502035-01

Prepared: 02/05/25 Analyzed: 02/07/25

Arsenic	0.562	0.200	mg/kg dry	0.578			2.72	20		
Barium	29.9	0.400	"	55.7			60.4	20		QR-04
Cadmium	0.393	0.200	"	1.88			131	20		QR-01
Copper	3.93	0.400	"	4.90			22.1	20		QR-01
Lead	16.1	0.200	"	18.9			16.0	20		
Nickel	2.49	0.400	"	11.4			128	20		QR-01
Silver	0.0733	0.0200	"	0.0729			0.564	20		
Zinc	10.6	0.400	"	12.9			19.6	20		
Selenium	ND	0.260	"	ND				20		

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Ocoma G25-16
Project Number: UWRWE-A2940-ABN
Project Manager: Mike Medina

Reported:
04/03/25 14:57

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 BIB0157 - EPA 3050B

Matrix Spike (BIB0157-MS1)	Source: 2502035-01			Prepared: 02/05/25 Analyzed: 02/07/25								
Arsenic	8.53	0.200	mg/kg dry	50.3	0.578	15.8	75-125					QM-05
Barium	79.9	0.400	"	50.3	55.7	48.0	75-125					QM-05
Cadmium	3.19	0.200	"	2.52	1.88	51.8	75-125					QM-05
Copper	12.6	0.400	"	50.3	4.90	15.3	75-125					QM-05
Lead	37.6	0.200	"	25.2	18.9	74.1	75-125					QM-05
Nickel	11.2	0.400	"	50.3	11.4	NR	75-125					QM-05
Silver	2.42	0.0200	"	2.52	0.0729	93.4	75-125					
Zinc	28.2	0.400	"	50.3	12.9	30.5	75-125					QM-05
Selenium	4.04	0.260	"	5.03	ND	80.3	75-125					

Matrix Spike Dup (BIB0157-MSD1)	Source: 2502035-01			Prepared: 02/05/25 Analyzed: 02/07/25								
Arsenic	8.36	0.200	mg/kg dry	50.3	0.578	15.5	75-125	2.00	25			QM-05
Barium	81.7	0.400	"	50.3	55.7	51.6	75-125	2.25	25			QM-05
Cadmium	2.91	0.200	"	2.52	1.88	40.9	75-125	9.03	25			QM-05
Copper	12.4	0.400	"	50.3	4.90	14.9	75-125	1.80	25			QM-05
Lead	36.8	0.200	"	25.2	18.9	71.0	75-125	2.11	25			QM-05
Nickel	11.3	0.400	"	50.3	11.4	NR	75-125	0.806	25			QM-05
Silver	2.48	0.0200	"	2.52	0.0729	95.6	75-125	2.30	25			
Zinc	22.5	0.400	"	50.3	12.9	19.0	75-125	22.7	25			QM-05
Selenium	4.25	0.260	"	5.03	ND	84.4	75-125	4.98	25			

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Ocoma G25-16
Project Number: UWRWE-A2940-ABN
Project Manager: Mike Medina

Reported:
04/03/25 14:57

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BIB0173 - 3060A Mod

Blank (BIB0173-BLK1)			Prepared & Analyzed: 02/05/25								
Chromium, Hexavalent	ND	0.30	mg/kg wet								
LCS (BIB0173-BS1)			Prepared & Analyzed: 02/05/25								
Chromium, Hexavalent	24.9	0.30	mg/kg wet	24.0	104	80-120					
Duplicate (BIB0173-DUP1)			Source: 2502035-01			Prepared & Analyzed: 02/05/25					
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND					20	
Matrix Spike (BIB0173-MS1)			Source: 2502035-01			Prepared & Analyzed: 02/05/25					
Chromium, Hexavalent	29.5	0.30	mg/kg dry	31.2	ND	94.6	75-125				
Matrix Spike Dup (BIB0173-MSD1)			Source: 2502035-01			Prepared & Analyzed: 02/05/25					
Chromium, Hexavalent	35.5	0.30	mg/kg dry	31.8	ND	111	75-125	18.3		20	

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Tasman Geosciences
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Ocoma G25-16
 Project Number: UWRWE-A2940-ABN
 Project Manager: Mike Medina

Reported:
 04/03/25 14:57

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 BIB0132 - General Preparation

Blank (BIB0132-BLK1)

Prepared: 02/04/25 Analyzed: 02/05/25

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

LCS (BIB0132-BS1)

Prepared: 02/04/25 Analyzed: 02/05/25

Calcium	5.54	0.0500	mg/L wet	5.00	111	70-130
Magnesium	4.90	0.0500	"	5.00	98.0	70-130
Sodium	4.93	0.0500	"	5.00	98.5	70-130

Summit Scientific

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Tasman Geosciences
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Ocoma G25-16
 Project Number: UWRWE-A2940-ABN
 Project Manager: Mike Medina

Reported:
 04/03/25 14:57

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

Summit Scientific

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

Batch BIB0141 - General Preparation

Duplicate (BIB0141-DUP1)

Source: 2502035-01

Prepared & Analyzed: 02/05/25

% Solids	80.2		%		80.1			0.0983	20	
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Summit Scientific

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Project: Noble - Ocoma G25-16
 Project Number: UWRWE-A2940-ABN
 Project Manager: Mike Medina

Reported:
 04/03/25 14:57

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 BIB0134 - General Preparation

Blank (BIB0134-BLK1)

Prepared: 02/04/25 Analyzed: 02/05/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BIB0134-BS1)

Prepared: 02/04/25 Analyzed: 02/05/25

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 101 95-105

Duplicate (BIB0134-DUP1)

Source: 2502038-01

Prepared: 02/04/25 Analyzed: 02/05/25

Specific Conductance (EC) 0.658 0.0100 mmhos/cm 0.672 2.16 20

Summit Scientific

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 Wheat Ridge CO, 80033

Project: Noble - Ocoma G25-16
 Project Number: UWRWE-A2940-ABN
 Project Manager: Mike Medina

Reported:
 04/03/25 14:57

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

Summit Scientific

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

Batch BIB0133 - General Preparation

LCS (BIB0133-BS1)

Prepared: 02/04/25 Analyzed: 02/05/25

pH	9.26	pH Units	9.18	101	95-105
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Duplicate (BIB0133-DUP1)

Source: 2502038-01

Prepared: 02/04/25 Analyzed: 02/05/25

pH	8.38	pH Units	8.36	0.239	20
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Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Ocoma G25-16
Project Number: UWRWE-A2940-ABN
Project Manager: Mike Medina

Reported:
04/03/25 14:57

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.
- 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