

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 21, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Lucci B01-22
Work Order #2402524

Enclosed are the results of analyses for samples received by Summit Scientific on 02/29/24 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B01-22
Project Number: UWRWE-A2069-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 16:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01 3'	2402524-01	Soil	02/28/24 14:15	02/29/24 16:30
FL02 3'	2402524-02	Soil	02/29/24 13:00	02/29/24 16:30

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

Lab ID	Page 1 of 1
2402524	

Client: Fremont Environmental		Send Data To: Project Manager: Paul Henehan		Send Invoice To: Company: Noble	
Address:		E-Mail: Fremont Distribution List		Project Name/Location:	
City/State/Zip:		Project Name: LUCI B01-22		AFE#:	
Phone: 303-261-6246		Project Number:		PO/Billing Codes: LWRWE-A2069-ABV	
Sampler Name: Stanley Gilbert				Contact: Mike Montoya	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested							Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)		TDS, Chloride, Sulfate	HOLD
1	FL01 3'	2/28/24	14:15	2			X			X			X	X	X	X	X			
2	FL02 3'	2/29/24	13:00	2			X			X			X	X	X	X	X			
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by:	Date/Time: 2/29/24 14:50	Received by: Summit North	Date/Time: 2/29/24 14:50	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time: 2/29/24 10:30	Received by:	Date/Time: 2/29/24 10:30	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: 8.2	Corrected Temperature: 8	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 240252f

Client: Fremont Client Project ID: Lucci B01-22

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

[] [] [] [] []

Matrix (Check all that apply) Air [] Spill/Solid [] Water [] Other []

Temp (°C) 8.2 Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? (1) NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	-			on ICE
If custody seals are present, are they intact? (1)	-			
Are samples due within 48 hours present?		-		
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen		-		
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)	✓			
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)		✓		no time sampled
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			✓	"
Are samples preserved that require preservation (excluding cooling)? (1) Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.			✓	
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?			✓	

Additional Comments (if any):

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

AS

Custodian Printed Name

2/29/24

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B01-22
Project Number: UWRWE-A2069-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 16:03

FL01 3'
2402524-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/28/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0050	03/04/24	03/04/24	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: **02/28/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0406	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0381	95.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	97.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/28/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0011	03/01/24	03/02/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/28/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	6.33	50.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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 03/21/24 16:03

FL01 3'
2402524-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **02/28/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0035	03/04/24	03/06/24	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: **02/28/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0270	80.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0192	57.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/28/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0372	03/13/24	03/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/28/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Manager: Paul Henchan

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03/21/24 16:03

FL01 3'
2402524-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.90	0.200	mg/kg dry	1	BHC0178	03/07/24	03/08/24	EPA 6020B	
Barium	39.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.07	0.400	"	"	"	"	"	"	
Lead	5.22	0.200	"	"	"	"	"	"	
Nickel	2.76	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/28/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0527	03/15/24	03/19/24	EPA 7196A	

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

Date Sampled: **02/28/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	85.0	0.0500	mg/L dry	1	BHC0333	03/12/24	03/20/24	EPA 6020B	
Magnesium	13.4	0.0500	"	"	"	"	"	"	
Sodium	2.90	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/28/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0772	0.00100	units	1	BHC0820	03/21/24	03/21/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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FL01 3'
2402524-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/28/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.7		%	1	BHC0316	03/12/24	03/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/28/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.194	0.0100	mmhos/cm	1	BHC0334	03/12/24	03/18/24	EPA 120.1	

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

Date Sampled: **02/28/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.52		pH Units	1	BHC0335	03/12/24	03/18/24	EPA 9045D	

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Project Number: UWRWE-A2069-ABN
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Reported:
03/21/24 16:03

FL02 3'
2402524-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/29/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0050	03/04/24	03/04/24	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: **02/29/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0464	116 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0386	96.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	99.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/29/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0011	03/01/24	03/02/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/29/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.47	59.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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03/21/24 16:03

FL02 3'
2402524-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/29/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0035	03/04/24	03/06/24	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: **02/29/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0386	116 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0307	92.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/29/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0372	03/13/24	03/15/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/29/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Lucci B01-22
Project Number: UWRWE-A2069-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 16:03

FL02 3'
2402524-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	4.42	0.200	mg/kg dry	1	BHC0178	03/07/24	03/08/24	EPA 6020B
Barium	153	0.400	"	"	"	"	"	"
Cadmium	0.257	0.200	"	"	"	"	"	"
Copper	5.21	0.400	"	"	"	"	"	"
Lead	22.4	0.200	"	"	"	"	"	"
Nickel	3.63	0.400	"	"	"	"	"	"
Silver	0.0298	0.0200	"	"	"	"	"	"
Zinc	16.8	0.400	"	"	"	"	"	"
Selenium	0.271	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/29/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0527	03/15/24	03/19/24	EPA 7196A	

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

Date Sampled: **02/29/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	205	0.0500	mg/L dry	1	BHC0333	03/12/24	03/20/24	EPA 6020B	
Magnesium	6.38	0.0500	"	"	"	"	"	"	
Sodium	0.997	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/29/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0187	0.00100	units	1	BHC0820	03/21/24	03/21/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/29/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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FL02 3'
2402524-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	91.4	%	1	BHC0316	03/12/24	03/13/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/29/24 13:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.160	0.0100	mmhos/cm	1	BHC0334	03/12/24	03/18/24	EPA 120.1	

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

Date Sampled: **02/29/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.76		pH Units	1	BHC0335	03/12/24	03/18/24	EPA 9045D	

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Project: Noble - Lucci B01-22
Project Number: UWRWE-A2069-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 16:03

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHC0050 - EPA 5030 Soil MS

Blank (BHC0050-BLK1)

Prepared & Analyzed: 03/04/24

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0394		"	0.0400		98.6		50-150		
<i>Surrogate: Toluene-d8</i>	0.0376		"	0.0400		94.0		50-150		
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0394		"	0.0400		98.6		50-150		

LCS (BHC0050-BS1)

Prepared & Analyzed: 03/04/24

Benzene	0.0953	0.0020	mg/kg	0.100		95.3		70-130		
Toluene	0.104	0.0050	"	0.100		104		70-130		
Ethylbenzene	0.103	0.0050	"	0.100		103		70-130		
m,p-Xylene	0.209	0.010	"	0.200		104		70-130		
o-Xylene	0.103	0.0050	"	0.100		103		70-130		
1,2,4-Trimethylbenzene	0.0982	0.0050	"	0.100		98.2		70-130		
1,3,5-Trimethylbenzene	0.0976	0.0050	"	0.100		97.6		70-130		
Naphthalene	0.103	0.0038	"	0.100		103		70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0373		"	0.0400		93.2		50-150		
<i>Surrogate: Toluene-d8</i>	0.0376		"	0.0400		94.1		50-150		
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0386		"	0.0400		96.4		50-150		

Matrix Spike (BHC0050-MS1)

Source: 2402525-01

Prepared & Analyzed: 03/04/24

Benzene	0.0906	0.0020	mg/kg	0.100	ND	90.6		70-130		
Toluene	0.0952	0.0050	"	0.100	ND	95.2		70-130		
Ethylbenzene	0.0935	0.0050	"	0.100	ND	93.5		70-130		
m,p-Xylene	0.189	0.010	"	0.200	ND	94.5		70-130		
o-Xylene	0.0937	0.0050	"	0.100	ND	93.7		70-130		
1,2,4-Trimethylbenzene	0.0854	0.0050	"	0.100	ND	85.4		70-130		
1,3,5-Trimethylbenzene	0.0845	0.0050	"	0.100	ND	84.5		70-130		
Naphthalene	0.0864	0.0038	"	0.100	ND	86.4		70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0416		"	0.0400		104		50-150		
<i>Surrogate: Toluene-d8</i>	0.0372		"	0.0400		93.1		50-150		
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0394		"	0.0400		98.4		50-150		

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lucci B01-22
 Project Number: UWRWE-A2069-ABN
 Project Manager: Paul Henchan

Reported:
 03/21/24 16:03

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

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

Batch BHC0050 - EPA 5030 Soil MS

Matrix Spike Dup (BHC0050-MSD1)	Source: 2402525-01			Prepared & Analyzed: 03/04/24						
Benzene	0.0910	0.0020	mg/kg	0.100	ND	91.0	70-130	0.495	30	
Toluene	0.0964	0.0050	"	0.100	ND	96.4	70-130	1.25	30	
Ethylbenzene	0.0982	0.0050	"	0.100	ND	98.2	70-130	4.88	30	
m,p-Xylene	0.195	0.010	"	0.200	ND	97.6	70-130	3.25	30	
o-Xylene	0.0949	0.0050	"	0.100	ND	94.9	70-130	1.30	30	
1,2,4-Trimethylbenzene	0.0842	0.0050	"	0.100	ND	84.2	70-130	1.49	30	
1,3,5-Trimethylbenzene	0.0855	0.0050	"	0.100	ND	85.5	70-130	1.13	30	
Naphthalene	0.0827	0.0038	"	0.100	ND	82.7	70-130	4.40	30	
Surrogate: 1,2-Dichloroethane-d4	0.0391		"	0.0400		97.7	50-150			
Surrogate: Toluene-d8	0.0377		"	0.0400		94.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.4	50-150			

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Project: Noble - Lucci B01-22
 Project Number: UWRWE-A2069-ABN
 Project Manager: Paul Henchan

Reported:
 03/21/24 16:03

Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

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

Batch BHC0011 - EPA 3550A

Blank (BHC0011-BLK1)

Prepared & Analyzed: 03/01/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	11.4		"	12.5		91.4		30-150		

LCS (BHC0011-BS1)

Prepared: 03/01/24 Analyzed: 03/02/24

C10-C28 (DRO)	444	50	mg/kg	500	40.1	88.8		70-130		
Surrogate: <i>o</i> -Terphenyl	9.36		"	12.5		74.9		30-150		

Matrix Spike (BHC0011-MS1)

Source: 2402506-01

Prepared: 03/01/24 Analyzed: 03/02/24

C10-C28 (DRO)	454	50	mg/kg	500	40.1	82.9		70-130		
Surrogate: <i>o</i> -Terphenyl	6.90		"	12.5		55.2		30-150		

Matrix Spike Dup (BHC0011-MSD1)

Source: 2402506-01

Prepared: 03/01/24 Analyzed: 03/02/24

C10-C28 (DRO)	469	50	mg/kg	500	40.1	85.9		70-130	3.25	20
Surrogate: <i>o</i> -Terphenyl	8.22		"	12.5		65.8		30-150		

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Project: Noble - Lucci B01-22
Project Number: UWRWE-A2069-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 16:03

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 BHC0035 - EPA 5030 Soil MS

Blank (BHC0035-BLK1)

Prepared: 03/04/24 Analyzed: 03/05/24

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0393</i>		"	<i>0.0333</i>		<i>118</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0320</i>		"	<i>0.0333</i>		<i>96.1</i>		<i>40-150</i>		

LCS (BHC0035-BS1)

Prepared: 03/04/24 Analyzed: 03/05/24

Acenaphthene	0.0268	0.00500	mg/kg	0.0333	80.4	31-137
Anthracene	0.0324	0.00500	"	0.0333	97.1	30-120
Benzo (a) anthracene	0.0279	0.00500	"	0.0333	83.8	30-120
Benzo (a) pyrene	0.0301	0.00500	"	0.0333	90.2	30-120
Benzo (b) fluoranthene	0.0304	0.00500	"	0.0333	91.1	30-120
Benzo (k) fluoranthene	0.0329	0.00500	"	0.0333	98.7	30-120
Chrysene	0.0321	0.00500	"	0.0333	96.3	30-120
Dibenz (a,h) anthracene	0.0263	0.00500	"	0.0333	79.0	30-120
Fluoranthene	0.0355	0.00500	"	0.0333	107	30-120
Fluorene	0.0292	0.00500	"	0.0333	87.6	30-120
Indeno (1,2,3-cd) pyrene	0.0307	0.00500	"	0.0333	92.0	30-120
Pyrene	0.0320	0.00500	"	0.0333	96.1	35-142
1-Methylnaphthalene	0.0366	0.00500	"	0.0333	110	35-142
2-Methylnaphthalene	0.0374	0.00500	"	0.0333	112	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0294</i>		"	<i>0.0333</i>	<i>88.3</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0369</i>		"	<i>0.0333</i>	<i>111</i>	<i>40-150</i>

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Project: Noble - Lucci B01-22
Project Number: UWRWE-A2069-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 16:03

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 BHC0035 - EPA 5030 Soil MS

Matrix Spike (BHC0035-MS1)	Source: 2402512-01			Prepared: 03/04/24 Analyzed: 03/05/24						
Acenaphthene	0.0224	0.00500	mg/kg	0.0333	ND	67.2	31-137			
Anthracene	0.0220	0.00500	"	0.0333	ND	66.1	30-120			
Benzo (a) anthracene	0.0206	0.00500	"	0.0333	ND	61.7	30-120			
Benzo (a) pyrene	0.0216	0.00500	"	0.0333	ND	64.9	30-120			
Benzo (b) fluoranthene	0.0215	0.00500	"	0.0333	ND	64.5	30-120			
Benzo (k) fluoranthene	0.0251	0.00500	"	0.0333	ND	75.4	30-120			
Chrysene	0.0242	0.00500	"	0.0333	ND	72.7	30-120			
Dibenz (a,h) anthracene	0.0190	0.00500	"	0.0333	ND	56.9	30-120			
Fluoranthene	0.0243	0.00500	"	0.0333	ND	72.9	30-120			
Fluorene	0.0231	0.00500	"	0.0333	ND	69.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0205	0.00500	"	0.0333	ND	61.5	30-120			
Pyrene	0.0246	0.00500	"	0.0333	ND	73.7	35-142			
1-Methylnaphthalene	0.0257	0.00500	"	0.0333	ND	77.0	15-130			
2-Methylnaphthalene	0.0208	0.00500	"	0.0333	ND	62.4	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0250</i>		<i>"</i>	<i>0.0333</i>		<i>75.0</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0243</i>		<i>"</i>	<i>0.0333</i>		<i>73.0</i>	<i>40-150</i>			

Matrix Spike Dup (BHC0035-MSD1)	Source: 2402512-01			Prepared: 03/04/24 Analyzed: 03/05/24						
Acenaphthene	0.0198	0.00500	mg/kg	0.0333	ND	59.4	31-137	12.2	30	
Anthracene	0.0191	0.00500	"	0.0333	ND	57.4	30-120	14.2	30	
Benzo (a) anthracene	0.0171	0.00500	"	0.0333	ND	51.3	30-120	18.5	30	
Benzo (a) pyrene	0.0179	0.00500	"	0.0333	ND	53.7	30-120	19.0	30	
Benzo (b) fluoranthene	0.0181	0.00500	"	0.0333	ND	54.3	30-120	17.1	30	
Benzo (k) fluoranthene	0.0214	0.00500	"	0.0333	ND	64.1	30-120	16.2	30	
Chrysene	0.0208	0.00500	"	0.0333	ND	62.4	30-120	15.2	30	
Dibenz (a,h) anthracene	0.0153	0.00500	"	0.0333	ND	45.8	30-120	21.7	30	
Fluoranthene	0.0215	0.00500	"	0.0333	ND	64.5	30-120	12.1	30	
Fluorene	0.0205	0.00500	"	0.0333	ND	61.4	30-120	12.0	30	
Indeno (1,2,3-cd) pyrene	0.0161	0.00500	"	0.0333	ND	48.3	30-120	24.0	30	
Pyrene	0.0213	0.00500	"	0.0333	ND	64.0	35-142	14.0	30	
1-Methylnaphthalene	0.0212	0.00500	"	0.0333	ND	63.5	15-130	19.2	50	
2-Methylnaphthalene	0.0163	0.00500	"	0.0333	ND	49.0	15-130	24.0	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0236</i>		<i>"</i>	<i>0.0333</i>		<i>70.8</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0215</i>		<i>"</i>	<i>0.0333</i>		<i>64.4</i>	<i>40-150</i>			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lucci B01-22
 Project Number: UWRWE-A2069-ABN
 Project Manager: Paul Henchan

Reported:
 03/21/24 16:03

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 BHC0372 - EPA 3050B

Blank (BHC0372-BLK1)

Prepared: 03/13/24 Analyzed: 03/15/24

Boron ND 2.00 mg/L

LCS (BHC0372-BS1)

Prepared: 03/13/24 Analyzed: 03/15/24

Boron 5.06 2.00 mg/L 5.00 101 80-120

Duplicate (BHC0372-DUP1)

Source: 2402524-01

Prepared: 03/13/24 Analyzed: 03/15/24

Boron 0.0867 2.00 mg/L 0.0673 25.2 20 QR-01

Matrix Spike (BHC0372-MS1)

Source: 2402524-01

Prepared: 03/13/24 Analyzed: 03/15/24

Boron 4.52 2.00 mg/L 5.00 0.0673 89.1 75-125

Matrix Spike Dup (BHC0372-MSD1)

Source: 2402524-01

Prepared: 03/13/24 Analyzed: 03/15/24

Boron 5.17 2.00 mg/L 5.00 0.0673 102 75-125 13.4 25

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PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B01-22
Project Number: UWRWE-A2069-ABN
Project Manager: Paul Henchan

Reported:
03/21/24 16:03

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 BHC0178 - EPA 3050B

Blank (BHC0178-BLK1)

Prepared: 03/07/24 Analyzed: 03/08/24

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 (BHC0178-BS1)

Prepared: 03/07/24 Analyzed: 03/08/24

Arsenic	39.5	0.200	mg/kg wet	40.0	98.7	80-120
Barium	40.0	0.400	"	40.0	100	80-120
Cadmium	1.97	0.200	"	2.00	98.6	80-120
Copper	43.6	0.400	"	40.0	109	80-120
Lead	19.7	0.200	"	20.0	98.6	80-120
Nickel	42.7	0.400	"	40.0	107	80-120
Silver	1.99	0.0200	"	2.00	99.3	80-120
Zinc	42.7	0.400	"	40.0	107	80-120
Selenium	4.70	0.260	"	4.00	118	80-120

Duplicate (BHC0178-DUP1)

Source: 2402500-01

Prepared: 03/07/24 Analyzed: 03/08/24

Arsenic	1.18	0.200	mg/kg dry	1.01	15.3	20
Barium	60.6	0.400	"	57.3	5.63	20
Cadmium	0.123	0.200	"	0.110	11.1	20
Copper	4.12	0.400	"	3.87	6.29	20
Lead	4.72	0.200	"	4.43	6.33	20
Nickel	3.77	0.400	"	3.48	7.85	20
Silver	0.0195	0.0200	"	0.0158	21.1	20
Zinc	15.7	0.400	"	14.5	8.14	20
Selenium	ND	0.260	"	ND		20

QR-01

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Project: Noble - Lucci B01-22
 Project Number: UWRWE-A2069-ABN
 Project Manager: Paul Henchan

Reported:
 03/21/24 16:03

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 BHC0178 - EPA 3050B

Matrix Spike (BHC0178-MS1)

Source: 2402500-01

Prepared: 03/07/24 Analyzed: 03/08/24

Arsenic	46.1	0.200	mg/kg dry	46.4	1.01	97.2	75-125			
Barium	95.8	0.400	"	46.4	57.3	83.0	75-125			
Cadmium	2.41	0.200	"	2.32	0.110	99.3	75-125			
Copper	37.7	0.400	"	46.4	3.87	72.9	75-125			QM-05
Lead	26.7	0.200	"	23.2	4.43	96.1	75-125			
Nickel	37.2	0.400	"	46.4	3.48	72.8	75-125			QM-05
Silver	2.27	0.0200	"	2.32	0.0158	97.2	75-125			
Zinc	48.5	0.400	"	46.4	14.5	73.3	75-125			QM-05
Selenium	4.91	0.260	"	4.64	ND	106	75-125			

Matrix Spike Dup (BHC0178-MSD1)

Source: 2402500-01

Prepared: 03/07/24 Analyzed: 03/08/24

Arsenic	47.0	0.200	mg/kg dry	46.4	1.01	99.2	75-125	2.00	25	
Barium	95.0	0.400	"	46.4	57.3	81.2	75-125	0.859	25	
Cadmium	2.40	0.200	"	2.32	0.110	98.8	75-125	0.520	25	
Copper	37.4	0.400	"	46.4	3.87	72.3	75-125	0.734	25	QM-05
Lead	26.7	0.200	"	23.2	4.43	96.2	75-125	0.125	25	
Nickel	37.0	0.400	"	46.4	3.48	72.3	75-125	0.629	25	QM-05
Silver	2.25	0.0200	"	2.32	0.0158	96.5	75-125	0.759	25	
Zinc	48.0	0.400	"	46.4	14.5	72.1	75-125	1.10	25	QM-05
Selenium	5.09	0.260	"	4.64	ND	110	75-125	3.69	25	

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Project: Noble - Lucci B01-22
 Project Number: UWRWE-A2069-ABN
 Project Manager: Paul Henchan

Reported:
 03/21/24 16:03

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 BHC0527 - 3060A Mod

Blank (BHC0527-BLK1)

Prepared: 03/15/24 Analyzed: 03/19/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHC0527-BS1)

Prepared: 03/15/24 Analyzed: 03/19/24

Chromium, Hexavalent 25.1 0.30 mg/kg wet 25.0 100 80-120

Duplicate (BHC0527-DUP1)

Source: 2402506-01

Prepared: 03/15/24 Analyzed: 03/19/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHC0527-MS1)

Source: 2402506-01

Prepared: 03/15/24 Analyzed: 03/19/24

Chromium, Hexavalent 27.9 0.30 mg/kg dry 27.0 ND 103 75-125

Matrix Spike Dup (BHC0527-MSD1)

Source: 2402506-01

Prepared: 03/15/24 Analyzed: 03/19/24

Chromium, Hexavalent 27.9 0.30 mg/kg dry 27.0 ND 103 75-125 0.00 20

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Project: Noble - Lucci B01-22
 Project Number: UWRWE-A2069-ABN
 Project Manager: Paul Henchan

Reported:
 03/21/24 16:03

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

Summit Scientific

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

Batch BHC0333 - General Preparation

Blank (BHC0333-BLK1)

Prepared: 03/12/24 Analyzed: 03/20/24

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

LCS (BHC0333-BS1)

Prepared: 03/12/24 Analyzed: 03/20/24

Calcium	6.39	0.0500	mg/L wet	5.00		128	70-130			
Magnesium	5.65	0.0500	"	5.00		113	70-130			
Sodium	5.76	0.0500	"	5.00		115	70-130			

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Project: Noble - Lucci B01-22
 Project Number: UWRWE-A2069-ABN
 Project Manager: Paul Henchan

Reported:
 03/21/24 16:03

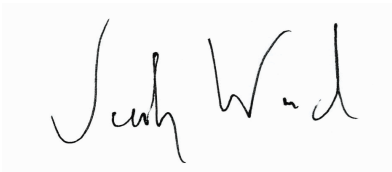
Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Summit Scientific

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

Batch BHC0316 - General Preparation

Duplicate (BHC0316-DUP1)	Source: 2402506-01		Prepared: 03/12/24 Analyzed: 03/13/24	
% Solids	91.3	%	92.5	1.33 20

Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lucci B01-22
 Project Number: UWRWE-A2069-ABN
 Project Manager: Paul Henchan

Reported:
 03/21/24 16:03

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

Summit Scientific

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

Batch BHC0334 - General Preparation

Blank (BHC0334-BLK1)

Prepared: 03/12/24 Analyzed: 03/18/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHC0334-BS1)

Prepared: 03/12/24 Analyzed: 03/18/24

Specific Conductance (EC) 0.158 0.0100 mmhos/cm 0.150 105 95-105

Duplicate (BHC0334-DUP1)

Source: 2402506-01

Prepared: 03/12/24 Analyzed: 03/18/24

Specific Conductance (EC) 0.0810 0.0100 mmhos/cm 0.0800 1.27 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lucci B01-22
 Project Number: UWRWE-A2069-ABN
 Project Manager: Paul Henchan

Reported:
 03/21/24 16:03

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 BHC0335 - General Preparation

LCS (BHC0335-BS1)

Prepared: 03/12/24 Analyzed: 03/18/24

pH	9.06		pH Units	9.18		98.7	95-105			
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Duplicate (BHC0335-DUP1)

Source: 2402506-01

Prepared: 03/12/24 Analyzed: 03/18/24

pH	9.03		pH Units	9.02		0.111	20			
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B01-22

Project Number: UWRWE-A2069-ABN

Project Manager: Paul Henchan

Reported:
03/21/24 16:03

Notes and Definitions

- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- 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