

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 25, 2024

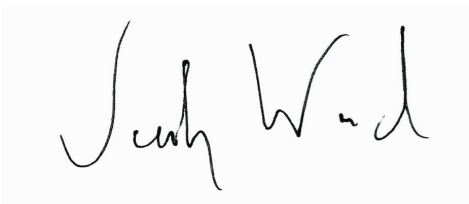
Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549

RE: Noble - Furrow USX AB 15-99Hz (BKG)

Work Order #2401326

Enclosed are the results of analyses for samples received by Summit Scientific on 01/19/24 14:01. 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 - Furrow USX AB 15-99Hz (BKG)

Project Number: UWRWE-A2542-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/25/24 16:20

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
99BKG06@5.0'	2401326-01	Soil	01/12/24 00:00	01/19/24 14:01

Summit Scientific

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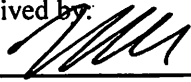
# SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2401326	

Send Data To:		Send Invoice To:	
Client: Fremont Env	Project Manager: Paul Henehan	Company: Noble	
Address:	E-Mail: Paulh@fremontenv.com	Project Name/Location: Furrow USX AB 15-99HZ	
City/State/Zip:	jeff@fremontenv.com Ethanh@fremontenv.com	AFE#:	
Phone:	Project Name: Furrow USX AB 15-99HZ (BK6)	PO/Billing Codes: UWRWE - A2542-ABN	
Sampler Name: J6	Project Number:	Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested				Special Instructions			
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	pH, SAR, EC, Boron	Metals (915)					
1	99BK606@5.0'	01/12/24		1			X			X			X	X					
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: 	Date/Time: 01/19/24	Received by: 	Date/Time: 1/19/24 14:01	TAT Business Days	Field DO	Notes:  Bill to Noble
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 0.1	Corrected Temperature	IR gun #: Z	HNO3 lot #:	Standard	<input checked="" type="checkbox"/> Field Turb.	

# S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2401324Client: Fremont Client Project ID: Furrow USX AB 15-99HZ (BKG)Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other  Airbill #: \_\_\_\_\_    Matrix (Check all that apply) Air  Soil/Solid  Water  Other Temp (°C)  Thermometer # 

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	On ice
If custody seals are present, are they intact? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.Mikayla Axtell

Custodian Printed Name

1/19/24 14:01

Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz (BKG)

Project Number: UWRWE-A2542-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/25/24 16:20

**99BKG06@5.0'**  
**2401326-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0771	01/23/24	01/24/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>2.50</b>	0.200		mg/kg dry	1	BHA0807	01/23/24	01/24/24	EPA 6020B	
Barium	<b>38.6</b>	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	<b>2.75</b>	0.400		"	"	"	"	"	"	
Lead	<b>4.89</b>	0.200		"	"	"	"	"	"	
Nickel	<b>3.18</b>	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	<b>12.2</b>	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0749	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>85.9</b>	0.0500		mg/L dry	1	BHA0702	01/19/24	01/23/24	EPA 6020B	
Magnesium	<b>17.0</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>19.7</b>	0.0500		"	"	"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz (BKG)  
Project Number: UWRWE-A2542-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/25/24 16:20

**99BKG06@5.0'**  
**2401326-01 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.491	0.00100	units	1	BHA0804	01/23/24	01/23/24	Calculation	

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

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.3		%	1	BHA0775	01/23/24	01/23/24	Calculation	

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

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.142	0.0100	mmhos/cm	1	BHA0727	01/22/24	01/23/24	EPA 120.1	

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

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.31		pH Units	1	BHA0726	01/22/24	01/23/24	EPA 9045D	

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 Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz (BKG)

Project Number: UWRWE-A2542-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/25/24 16:20

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

**Summit Scientific**

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

**Batch BHA0771 - EPA 3050B**

**Blank (BHA0771-BLK1)**

Prepared: 01/23/24 Analyzed: 01/24/24

Boron ND 2.00 mg/L

**LCS (BHA0771-BS1)**

Prepared: 01/23/24 Analyzed: 01/24/24

Boron 4.89 2.00 mg/L 5.00 97.8 80-120

**Duplicate (BHA0771-DUP1)**

**Source: 2401318-01**

Prepared: 01/23/24 Analyzed: 01/24/24

Boron ND 2.00 mg/L ND 20

**Matrix Spike (BHA0771-MS1)**

**Source: 2401318-01**

Prepared: 01/23/24 Analyzed: 01/24/24

Boron 4.31 2.00 mg/L 5.00 ND 86.1 75-125

**Matrix Spike Dup (BHA0771-MSD1)**

**Source: 2401318-01**

Prepared: 01/23/24 Analyzed: 01/24/24

Boron 4.64 2.00 mg/L 5.00 ND 92.9 75-125 7.55 25

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Project: Noble - Furrow USX AB 15-99Hz (BKG)

Project Number: UWRWE-A2542-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/25/24 16:20

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BHA0807 - EPA 3050B**

**Blank (BHA0807-BLK1)**

Prepared: 01/23/24 Analyzed: 01/24/24

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 (BHA0807-BS1)**

Prepared: 01/23/24 Analyzed: 01/24/24

Arsenic	33.3	0.200	mg/kg wet	40.0	83.3	80-120
Barium	34.0	0.400	"	40.0	85.0	80-120
Cadmium	1.64	0.200	"	2.00	82.1	80-120
Copper	36.1	0.400	"	40.0	90.2	80-120
Lead	16.7	0.200	"	20.0	83.3	80-120
Nickel	35.6	0.400	"	40.0	89.0	80-120
Silver	1.66	0.0200	"	2.00	83.2	80-120
Zinc	35.7	0.400	"	40.0	89.3	80-120
Selenium	3.55	0.260	"	4.00	88.8	80-120

**Duplicate (BHA0807-DUP1)**

Source: 2401326-01

Prepared: 01/23/24 Analyzed: 01/24/24

Arsenic	2.46	0.200	mg/kg dry	2.50	1.64	20	
Barium	64.9	0.400	"	38.6	50.7	20	QR-04
Cadmium	0.145	0.200	"	0.138	5.16	20	
Copper	2.90	0.400	"	2.75	5.32	20	
Lead	5.31	0.200	"	4.89	8.27	20	
Nickel	3.37	0.400	"	3.18	5.56	20	
Silver	0.0176	0.0200	"	0.0171	2.47	20	
Zinc	12.7	0.400	"	12.2	4.00	20	
Selenium	ND	0.260	"	ND		20	

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Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz (BKG)

Project Number: UWRWE-A2542-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/25/24 16:20

**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 BHA0807 - EPA 3050B**

**Matrix Spike (BHA0807-MS1)**

Source: 2401326-01

Prepared: 01/23/24 Analyzed: 01/24/24

Arsenic	33.6	0.200	mg/kg dry	42.9	2.50	72.6	75-125				QM-07
Barium	67.1	0.400	"	42.9	38.6	66.4	75-125				QM-07
Cadmium	1.74	0.200	"	2.14	0.138	75.0	75-125				
Copper	26.9	0.400	"	42.9	2.75	56.4	75-125				QM-07
Lead	19.8	0.200	"	21.4	4.89	69.6	75-125				QM-07
Nickel	27.4	0.400	"	42.9	3.18	56.5	75-125				QM-07
Silver	1.62	0.0200	"	2.14	0.0171	74.8	75-125				QM-07
Zinc	36.2	0.400	"	42.9	12.2	56.0	75-125				QM-07
Selenium	3.28	0.260	"	4.29	ND	76.5	75-125				

**Matrix Spike Dup (BHA0807-MSD1)**

Source: 2401326-01

Prepared: 01/23/24 Analyzed: 01/24/24

Arsenic	33.1	0.200	mg/kg dry	42.9	2.50	71.5	75-125	1.38	25		QM-07
Barium	66.0	0.400	"	42.9	38.6	63.9	75-125	1.64	25		QM-07
Cadmium	1.75	0.200	"	2.14	0.138	75.3	75-125	0.368	25		
Copper	27.2	0.400	"	42.9	2.75	57.1	75-125	1.13	25		QM-07
Lead	19.7	0.200	"	21.4	4.89	68.9	75-125	0.723	25		QM-07
Nickel	27.8	0.400	"	42.9	3.18	57.4	75-125	1.39	25		QM-07
Silver	1.59	0.0200	"	2.14	0.0171	73.6	75-125	1.55	25		QM-07
Zinc	36.9	0.400	"	42.9	12.2	57.7	75-125	1.97	25		QM-07
Selenium	3.27	0.260	"	4.29	ND	76.3	75-125	0.249	25		

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 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz (BKG)

Project Number: UWRWE-A2542-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/25/24 16:20

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BHA0749 - 3060A Mod**

**Blank (BHA0749-BLK1)**

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent      ND      0.30 mg/kg wet

**LCS (BHA0749-BS1)**

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent      23.6      0.30 mg/kg wet      25.0      94.6      80-120

**Duplicate (BHA0749-DUP1)**

**Source: 2401274-01**

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent      ND      0.30 mg/kg dry      ND      20

**Matrix Spike (BHA0749-MS1)**

**Source: 2401274-01**

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent      25.4      0.30 mg/kg dry      29.8      ND      85.4      75-125

**Matrix Spike Dup (BHA0749-MSD1)**

**Source: 2401274-01**

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent      25.5      0.30 mg/kg dry      29.8      ND      85.6      75-125      0.234      20

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 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz (BKG)

Project Number: UWRWE-A2542-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/25/24 16:20

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

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

**Batch BHA0702 - General Preparation**

**Blank (BHA0702-BLK1)**

Prepared: 01/19/24 Analyzed: 01/23/24

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

**LCS (BHA0702-BS1)**

Prepared: 01/19/24 Analyzed: 01/23/24

Calcium	6.34	0.0500	mg/L wet	5.00		127	70-130			
Magnesium	5.71	0.0500	"	5.00		114	70-130			
Sodium	5.75	0.0500	"	5.00		115	70-130			

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Project: Noble - Furrow USX AB 15-99Hz (BKG)

Project Number: UWRWE-A2542-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/25/24 16:20

**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 BHA0775 - General Preparation**


**Duplicate (BHA0775-DUP1)**

**Source: 2401326-01**

Prepared & Analyzed: 01/23/24

% Solids	93.3		%		93.3			0.000482	20	
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Project: Noble - Furrow USX AB 15-99Hz (BKG)

Project Number: UWRWE-A2542-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/25/24 16:20

**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 BHA0727 - General Preparation**

**Blank (BHA0727-BLK1)**

Prepared: 01/22/24 Analyzed: 01/23/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHA0727-BS1)**

Prepared: 01/22/24 Analyzed: 01/23/24

Specific Conductance (EC) 0.157 0.0100 mmhos/cm 0.150 104 95-105

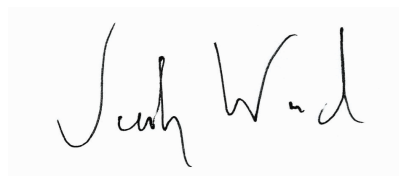
**Duplicate (BHA0727-DUP1)**

Source: 2401324-01

Prepared: 01/22/24 Analyzed: 01/23/24

Specific Conductance (EC) 0.468 0.0100 mmhos/cm 0.477 1.84 20

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Project: Noble - Furrow USX AB 15-99Hz (BKG)

Project Number: UWRWE-A2542-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/25/24 16:20

**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 BHA0726 - General Preparation**

**LCS (BHA0726-BS1)**

Prepared: 01/22/24 Analyzed: 01/23/24

pH	9.03	pH Units	9.18	98.4	95-105
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**Duplicate (BHA0726-DUP1)**

Source: 2401324-01

Prepared: 01/22/24 Analyzed: 01/23/24

pH	7.89	pH Units	8.00	1.38	20
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Project Number: UWRWE-A2542-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/25/24 16:20

### Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- 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