



**LEGEND**

- FENCE LINE
- CONTAINMENT BERM
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY

**Figure 1  
SITE MAP**

**Noble Rothe 1-24**  
 Facility ID - 322911  
 NE NE Section 24, T5N R64W  
 Weld County, Colorado

API No. <b>05-123-12254</b>	Prepared by <b>JMA</b>	Drawn by <b>JMA</b>
Date <b>9/1/16</b>	Reviewed by	Filename <b>V051A</b>



# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

August 25, 2016

Paul Henehan  
Fremont Environmental  
1759 Redwing Lane  
Broomfield, CO 80020  
RE: Noble - Roth 1-24

Enclosed are the results of analyses for samples received by Summit Scientific on 08/24/16 14:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', written in a cursive style.

Paul Shrewsbury  
President



Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Roth 1-24

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
08/25/16 06:57

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Floor 7Ft	1608193-01	Soil	08/24/16 00:00	08/24/16 14:10
W. Wall 3Ft	1608193-02	Soil	08/24/16 00:00	08/24/16 14:10

Summit Scientific

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Roth 1-24

Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
08/25/16 06:57

# Summit Scientific 1608193

S<sub>2</sub>

741 Corporate Circle, Suite J ♦ Golden, Colorado 80401  
303-277-9310 ♦ 303-374-5933

Page 1 of 1

Client: FREMONT/NOBLE Project Manager: HENEHAN  
Address: \_\_\_\_\_ E-Mail: INVOICE TO HOWARD  
City/State/Zip: \_\_\_\_\_  
Phone: 3039568714 Fax: \_\_\_\_\_ Project Name: NOBLE - ROTHE 1-24  
Sampler Name: HENEHAN Project Number: \_\_\_\_\_

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions
					HCl	HNO3	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	BTX	SVOC/DRO	MRSTT	SAR	EC	
1	FLOOR 7 FT	8/24/16		1			✓		✓				✓	✓	✓	✓		
2	W. WALL 3 FT			1			✓		✓				✓	✓	✓	✓		
3	N. WALL 3 FT			1			✓		✓				✓	✓	✓	✓		PLZ HOLD
4	S. WALL 3 FT			1			✓		✓				✓	✓	✓	✓		PLZ HOLD
5	E. WALL 3 FT			1			✓		✓				✓	✓	✓	✓		PLZ HOLD
6																		
7																		
8																		IF W. WALL OVER
9																		CORRE LIMITS, MAY
10																		WANT TO ANALYZE
Relinquished by: <u>PAUL HENEHAN</u>		Date/Time: <u>8/24/16 14:10</u>		Received by: <u>NA</u>		Date/Time: <u>8-24-16 14:10</u>		Turn Around Time (Check)						Notes:				
								Same Day <input checked="" type="checkbox"/> 72 hours <input type="checkbox"/>										
								24 hours <input type="checkbox"/> Standard <input type="checkbox"/>										
								48 hours <input type="checkbox"/> <u>TRIALS AM PLZ</u>										
								Sample Integrity: <u>4.9</u>										
								Temperature Upon Receipt: <u>4.9</u>										
								Intact: Yes No										

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Roth 1-24

Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
08/25/16 06:57

**Sample Receipt Checklist**

S2 Work Order: 1608173  
Client: Fremont Client Project ID: Noble - Rothe 1-24  
Shipped Via: H.D. on ice Airbill #: \_\_\_\_\_  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Matrix (check all that apply):  Air  Soil/Solid  Water  Other: \_\_\_\_\_  
(Describe)

Cooler ID				
Temp (°C)	<u>4.8</u>			

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature just above 0°C to ≤ 6°C <sup>(1)</sup> ? NOTE: If samples are delivered the same day of sampling, this requirement is waived provided that there is evidence that cooling has begun.	X			
Were all samples received intact <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
If custody seals are present, are they intact <sup>(1)</sup> ?			X	
Are short holding time analytes or samples with HTs due within 48 hours present?	X			
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	X			
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	X			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			X	
Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect			X	
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ? Record the pH in Comments.			X	
If dissolved metals are requested, were samples field filtered?			X	
Additional Comments (if any):				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

Muri P.  
Custodian Printed Name

KA 8-24-16  
Signature or Initials of Custodian

11:30  
Date/Time



Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Roth 1-24

Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
08/25/16 06:57

**Floor 7Ft**  
**1608193-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/24/16 00:00**

Analyte	Result	Reporting MDL		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Limit							
C10-C28 (DRO)	ND	50	5.3	mg/kg	1	1608252	08/24/16	08/24/16	8015M	

Date Sampled: **08/24/16 00:00**

Analyte	Result	Reporting MDL		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Limit							
Surrogate: <i>o</i> -Terphenyl		96.7 %	30-150			"	"	"	"	

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

Date Sampled: **08/24/16 00:00**

Analyte	Result	Reporting MDL		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Limit							
Naphthalene	ND	0.010	0.000	mg/kg	1	1608251	08/24/16	08/25/16	EPA 8260B	
Benzene	ND	0.0020	0.000	"	"	"	"	"	"	
Toluene	ND	0.0050	0.000	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.000	"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	0.18	"	"	"	"	"	"	

Date Sampled: **08/24/16 00:00**

Analyte	Result	Reporting MDL		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Limit							
Surrogate: 1,2-Dichloroethane-d4		104 %	23-173			"	"	"	"	
Surrogate: Toluene-d8		94.6 %	20-170			"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.2 %	21-167			"	"	"	"	

Summit Scientific

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Roth 1-24

Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
08/25/16 06:57

**W. Wall 3Ft  
1608193-02 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/24/16 00:00**

Analyte	Result	Reporting MDL		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Limit							
<b>C10-C28 (DRO)</b>	<b>50</b>	50	5.3	mg/kg	1	1608252	08/24/16	08/24/16	8015M	

Date Sampled: **08/24/16 00:00**

Analyte	Result	Reporting MDL		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Limit							
<i>Surrogate: o-Terphenyl</i>		99.2 %	30-150			"	"	"	"	

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

Date Sampled: **08/24/16 00:00**

Analyte	Result	Reporting MDL		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Limit							
<b>Naphthalene</b>	<b>0.043</b>	0.010	0.000	mg/kg	1	1608251	08/24/16	08/25/16	EPA 8260B	
Benzene	ND	0.0020	0.000	"	"	"	"	"	"	
Toluene	ND	0.0050	0.000	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.000	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.016</b>	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	0.18	"	"	"	"	"	"	

Date Sampled: **08/24/16 00:00**

Analyte	Result	Reporting MDL		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Limit							
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.4 %	23-173			"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96.7 %	20-170			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		88.5 %	21-167			"	"	"	"	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **08/24/16 00:00**

Analyte	Result	Reporting MDL		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Limit							

Summit Scientific

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1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Roth 1-24

Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
08/25/16 06:57

**W. Wall 3Ft  
1608193-02 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Analyte	Result	Reporting Limit	MDL Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	453	11.5	3.78	mg/kg dry	1	1608248	08/24/16	08/24/16	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	240	5.75	0.742	"	"	"	"	"	"	
Sodium	711	5.75	0.862	"	"	"	"	"	"	

Date Sampled: 08/24/16 00:00

Analyte	Result	Reporting Limit	MDL Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.21			units	"	1608254	08/25/16	08/25/16	"	

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

Date Sampled: 08/24/16 00:00

Analyte	Result	Reporting Limit	MDL Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.41	0.0100	0.001	mmhos/cm	1	1608250	08/24/16	08/24/16	SM 2510B	

Date Sampled: 08/24/16 00:00

Analyte	Result	Reporting Limit	MDL Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.89	0.100		pH Units	"	1608249	08/24/16	08/24/16	EPA 9045	

Date Sampled: 08/24/16 00:00

Analyte	Result	Reporting Limit	MDL Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.9			%	"	1608253	08/24/16	08/25/16	% calculation	

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1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Roth 1-24

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
08/25/16 06:57

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch 1608252 - EPA 3550A**

**Blank (1608252-BLK1)**

Prepared & Analyzed: 08/24/16

C10-C28 (DRO)	ND	50	mg/kg							
Surrogate: <i>o</i> -Terphenyl	12.2		"	12.5		98.0	30-150			

**LCS (1608252-BS1)**

Prepared & Analyzed: 08/24/16

C10-C28 (DRO)	519	50	mg/kg	499		104	73-134			
Surrogate: <i>o</i> -Terphenyl	12.6		"	12.5		101	30-150			

**Matrix Spike (1608252-MS1)**

Source: 1608189-04

Prepared & Analyzed: 08/24/16

C10-C28 (DRO)	455	50	mg/kg	499	12.5	88.7	50-148			
Surrogate: <i>o</i> -Terphenyl	12.5		"	12.5		99.8	30-150			

**Matrix Spike Dup (1608252-MSD1)**

Source: 1608189-04

Prepared & Analyzed: 08/24/16

C10-C28 (DRO)	454	50	mg/kg	499	12.5	88.5	50-148	0.287	20	
Surrogate: <i>o</i> -Terphenyl	12.3		"	12.5		98.5	30-150			

Summit Scientific

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Roth 1-24

Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
08/25/16 06:57

**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 1608251 - EPA 5030 Soil MS**

**Blank (1608251-BLK1)**

Prepared & Analyzed: 08/24/16

Naphthalene	ND	0.010	mg/kg							
Benzene	ND	0.0020	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0421</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0389</i>		<i>"</i>	<i>0.0400</i>		<i>97.3</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0382</i>		<i>"</i>	<i>0.0400</i>		<i>95.5</i>	<i>21-167</i>			

**LCS (1608251-BS1)**

Prepared & Analyzed: 08/24/16

Naphthalene	ND	0.010	mg/kg				66-138			
Benzene	0.0795	0.0020	"	0.100		79.5	58-130			
Toluene	0.0874	0.0050	"	0.100		87.4	61-134			
Ethylbenzene	0.0992	0.0050	"	0.0992		100	74-139			
m,p-Xylene	0.206	0.010	"	0.200		103	73-137			
o-Xylene	0.108	0.0050	"	0.0980		110	73-141			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0422</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0385</i>		<i>"</i>	<i>0.0400</i>		<i>96.2</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0388</i>		<i>"</i>	<i>0.0400</i>		<i>97.0</i>	<i>21-167</i>			

**Matrix Spike (1608251-MS1)**

Source: 1608189-04

Prepared & Analyzed: 08/24/16

Naphthalene	0.0159	0.010	mg/kg		ND		10-158			
Benzene	0.0822	0.0020	"	0.100	ND	82.2	30-131			
Toluene	0.0886	0.0050	"	0.100	0.00138	87.2	30-134			
Ethylbenzene	0.0982	0.0050	"	0.0992	ND	99.0	22-153			
m,p-Xylene	0.206	0.010	"	0.200	ND	103	10-159			
o-Xylene	0.109	0.0050	"	0.0980	ND	111	31-151			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0453</i>		<i>"</i>	<i>0.0400</i>		<i>113</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0388</i>		<i>"</i>	<i>0.0400</i>		<i>97.1</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0393</i>		<i>"</i>	<i>0.0400</i>		<i>98.3</i>	<i>21-167</i>			

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1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Roth 1-24

Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
08/25/16 06:57

**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 1608251 - EPA 5030 Soil MS**

Matrix Spike Dup (1608251-MSD1)	Source: 1608189-04			Prepared & Analyzed: 08/24/16						
Naphthalene	ND	0.010	mg/kg	ND	ND	10-158			42	
Benzene	0.0806	0.0020	"	0.100	ND	80.6	30-131	1.88	34	
Toluene	0.0892	0.0050	"	0.100	0.00138	87.8	30-134	0.709	30	
Ethylbenzene	0.100	0.0050	"	0.0992	ND	101	22-153	2.18	24	
m,p-Xylene	0.208	0.010	"	0.200	ND	104	10-159	0.883	68	
o-Xylene	0.111	0.0050	"	0.0980	ND	113	31-151	1.83	38	
Surrogate: 1,2-Dichloroethane-d4	0.0433		"	0.0400		108	23-173			
Surrogate: Toluene-d8	0.0388		"	0.0400		97.0	20-170			
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.6	21-167			

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Project: Noble - Roth 1-24

Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
08/25/16 06:57

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis - Quality Control**  
**Summit Scientific**

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

**Batch 1608248 - General Preparation**

**Blank (1608248-BLK1)**

Prepared & Analyzed: 08/24/16

Calcium	ND	10.0	mg/kg wet							
Magnesium	ND	5.00	"							
Sodium	ND	5.00	"							

**LCS (1608248-BS1)**

Prepared & Analyzed: 08/24/16

Calcium	527	10.0	mg/kg wet	500	105	82.9-118				
Magnesium	534	5.00	"	500	107	77.1-123				
Sodium	548	5.00	"	500	110	71-129				

**Duplicate (1608248-DUP1)**

Source: 1608190-01

Prepared & Analyzed: 08/24/16

Calcium	697	12.7	mg/kg dry		181			117	200	
Magnesium	778	6.37	"		170			128	200	
Sodium	1370	6.37	"		784			54.6	200	

**Matrix Spike (1608248-MS1)**

Source: 1608190-01

Prepared & Analyzed: 08/24/16

Calcium	701	12.7	mg/kg dry	637	181	81.6	75-125			
Magnesium	771	6.37	"	637	170	94.4	75-125			
Sodium	1340	6.37	"	637	784	87.6	75-125			

**Matrix Spike Dup (1608248-MSD1)**

Source: 1608190-01

Prepared & Analyzed: 08/24/16

Calcium	185	12.7	mg/kg dry	637	181	0.574	75-125	116	25	QM-07
Magnesium	167	6.37	"	637	170	NR	75-125	129	25	QM-07
Sodium	762	6.37	"	637	784	NR	75-125	55.2	25	QM-07

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Broomfield CO, 80020

Project: Noble - Roth 1-24

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
08/25/16 06:57

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

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

**Batch 1608249 - General Preparation**

<b>LCS (1608249-BS1)</b>					Prepared & Analyzed: 08/24/16					
pH	8.02	0.100	pH Units	8.00	100	95-105				

<b>Duplicate (1608249-DUP1)</b>					Source: 1608190-01		Prepared & Analyzed: 08/24/16			
pH	8.59	0.100	pH Units		8.82			2.64	20	

**Batch 1608250 - General Preparation**

<b>Blank (1608250-BLK1)</b>					Prepared & Analyzed: 08/24/16					
Specific Conductance (EC)	ND	0.0100	mmhos/cm							

<b>LCS (1608250-BS1)</b>					Prepared & Analyzed: 08/24/16					
Specific Conductance (EC)	0.480	0.0100	mmhos/cm	0.500	95.9	90-110				

<b>Duplicate (1608250-DUP1)</b>					Source: 1608190-01		Prepared & Analyzed: 08/24/16			
Specific Conductance (EC)	2.00	0.0100	mmhos/cm		1.78			11.6	20	

**Batch 1608253 - General Preparation**

<b>Duplicate (1608253-DUP1)</b>					Source: 1608190-01		Prepared: 08/24/16 Analyzed: 08/25/16			
% Solids	67.5		%		66.5			1.46	20	

Summit Scientific

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



Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Roth 1-24

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
08/25/16 06:57

### Notes and Definitions

- 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

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Summit Scientific

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