

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 28, 2020

Jeremy Pike

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: Critter Creek 9-15H

Work Order #2010273

Enclosed are the results of analyses for samples received by Summit Scientific on 10/21/20 14:30. 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', with a stylized, cursive script.

Paul Shrewsbury

President



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Critter Creek 9-15H
Project Number: 027318130
Project Manager: Jeremy Pike

Reported:
10/28/20 14:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@0-6"	2010273-01	Soil	10/20/20 11:50	10/21/20 14:30
SS02@0-6"	2010273-02	Soil	10/20/20 11:55	10/21/20 14:30
SS02@0-9"	2010273-03	Soil	10/20/20 12:00	10/21/20 14:30
SS04@0-6"	2010273-04	Soil	10/20/20 12:07	10/21/20 14:30
SS04@6-12"	2010273-05	Soil	10/20/20 12:11	10/21/20 14:30
SS05@0-6"	2010273-06	Soil	10/20/20 12:20	10/21/20 14:30
SS05@18-24"	2010273-07	Soil	10/20/20 12:25	10/21/20 14:30
SS07@0-6"	2010273-08	Soil	10/20/20 12:15	10/21/20 14:30

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2010273

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S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 1

Client: LT Environmental

Project Manager: Jeremy Pike

Address: 4600 W 60th Ave

E-Mail: J Pike @ Ltehu.com

City/State/Zip: Arvada, CO 80003

fpebel @ Ltehu.com

Phone: 303-433-9788

Project Name: Chitter Creek 915H

Sampler Name: Drew Bullinger

Project Number: 027318130

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	TPH- 680/Pro/680	PH							
1	SS01 @ 0-6"	10/20/20	11:50	1			X			X				X							
2	SS02 @ 0-6"	10/20/20	11:55	1			X			X				X							
3	SS02 @ 0-9"	10/20/20	12:00	1			X			X				X							
4	SS04 @ 0-6"	10/20/20	12:07	1			X			X				X							
5	SS04 @ 6-12"	10/20/20	12:11	1			X			X				X							
6	SS05 @ 0-6"	10/20/20	12:20	1			X			X					X						
7	SS05 @ 18-24"	10/20/20	12:25	1			X			X				X							
8	SS07 @ 0-6"	10/20/20	12:15	1			X			X				X							
9																					
10																					

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time (Check) Same Day _____ 72 hours 24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____ Sample Integrity: Temperature Upon Receipt: 4.6° Samples Intact: <input checked="" type="radio"/> Yes No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Sample Receipt Checklist

S2 Work Order 2010273

Client: LTE

Client Project ID: Critter Creek 9-15H

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

Matrix (check all that apply): _____ Air ☒ Soil/Solid _____ Water _____ Other: _____
(Describe)

Temp (°C)	<u>4.6</u>
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Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>on ice</u>
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? 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):

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

ATI
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

10-21-2020
Date/Time



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Critter Creek 9-15H

Project Number: 027318130
Project Manager: Jeremy Pike

Reported:
10/28/20 14:17

SS01@0-6"
2010273-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/20 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.50	mg/kg	1	BDJ0312	10/23/20	10/26/20	EPA 8260B	

Date Sampled: **10/20/20 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.6 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/20 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	77	50	mg/kg	1	BDJ0311	10/23/20	10/27/20	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/20/20 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		89.5 %	30-150		"	"	"	"	

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4600 West 60th Avenue
Arvada CO, 80003

Project: Critter Creek 9-15H

Project Number: 027318130
Project Manager: Jeremy Pike

Reported:
10/28/20 14:17

SS02@0-6"
2010273-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/20 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.50	mg/kg	1	BDJ0312	10/23/20	10/26/20	EPA 8260B	

Date Sampled: **10/20/20 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.5 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/20 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	210	50	mg/kg	1	BDJ0311	10/23/20	10/27/20	EPA 8015M	
C28-C36 (ORO)	100	50	"	"	"	"	"	"	

Date Sampled: **10/20/20 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.2 %	30-150		"	"	"	"	

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Project: Critter Creek 9-15H

Project Number: 027318130
Project Manager: Jeremy Pike

Reported:
10/28/20 14:17

SS02@0-9"
2010273-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/20 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.50	mg/kg	1	BDJ0312	10/23/20	10/27/20	EPA 8260B	

Date Sampled: **10/20/20 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		101 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/20 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	210	50	mg/kg	1	BDJ0311	10/23/20	10/27/20	EPA 8015M	
C28-C36 (ORO)	100	50	"	"	"	"	"	"	

Date Sampled: **10/20/20 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		86.8 %	30-150		"	"	"	"	

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Project: Critter Creek 9-15H

Project Number: 027318130
Project Manager: Jeremy Pike

Reported:
10/28/20 14:17

SS04@0-6"
2010273-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/20 12:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	1.7	0.50	mg/kg	1	BDJ0312	10/23/20	10/27/20	EPA 8260B	

Date Sampled: **10/20/20 12:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/20 12:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	2900	50	mg/kg	1	BDJ0311	10/23/20	10/27/20	EPA 8015M	
C28-C36 (ORO)	830	50	"	"	"	"	"	"	

Date Sampled: **10/20/20 12:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		110 %	30-150		"	"	"	"	

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Reported:
10/28/20 14:17

SS04@6-12"
2010273-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/20 12:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	230	5.0	mg/kg	10	BDJ0312	10/23/20	10/27/20	EPA 8260B	

Date Sampled: **10/20/20 12:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		523 %	21-167		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/20 12:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	1900	50	mg/kg	1	BDJ0311	10/23/20	10/27/20	EPA 8015M	
C28-C36 (ORO)	340	50	"	"	"	"	"	"	

Date Sampled: **10/20/20 12:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		103 %	30-150		"	"	"	"	

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Arvada CO, 80003

Project: Critter Creek 9-15H
Project Number: 027318130
Project Manager: Jeremy Pike

Reported:
10/28/20 14:17

SS05@0-6"
2010273-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/20/20 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	9.09			pH Units	1	BDJ0307	10/23/20	10/23/20	EPA 9045D	

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Project: Critter Creek 9-15H
Project Number: 027318130
Project Manager: Jeremy Pike

Reported:
10/28/20 14:17

SS05@18-24"
2010273-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/20 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.50	mg/kg	1	BDJ0312	10/23/20	10/27/20	EPA 8260B	

Date Sampled: **10/20/20 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/20 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	580	50	mg/kg	1	BDJ0311	10/23/20	10/27/20	EPA 8015M	
C28-C36 (ORO)	190	50	"	"	"	"	"	"	

Date Sampled: **10/20/20 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		86.4 %	30-150		"	"	"	"	

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4600 West 60th Avenue
Arvada CO, 80003

Project: Critter Creek 9-15H

Project Number: 027318130
Project Manager: Jeremy Pike

Reported:
10/28/20 14:17

SS07@0-6"
2010273-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/20 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.50	mg/kg	1	BDJ0312	10/23/20	10/27/20	EPA 8260B	

Date Sampled: **10/20/20 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/20 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	1200	50	mg/kg	1	BDJ0311	10/23/20	10/27/20	EPA 8015M	
C28-C36 (ORO)	780	50	"	"	"	"	"	"	

Date Sampled: **10/20/20 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		89.9 %	30-150		"	"	"	"	

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4600 West 60th Avenue
Arvada CO, 80003

Project: Critter Creek 9-15H

Project Number: 027318130
Project Manager: Jeremy Pike

Reported:
10/28/20 14:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BDJ0312 - EPA 5030 Soil MS

Blank (BDJ0312-BLK1)

Prepared: 10/23/20 Analyzed: 10/26/20

Gasoline Range Hydrocarbons	ND	0.50	mg/kg						
Surrogate: 1,2-Dichloroethane-d4	0.0359		"	0.0400		89.8	23-173		
Surrogate: Toluene-d8	0.0387		"	0.0400		96.7	20-170		
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		100	21-167		

LCS (BDJ0312-BS1)

Prepared: 10/23/20 Analyzed: 10/26/20

Surrogate: 1,2-Dichloroethane-d4	0.0299		mg/kg	0.0400		74.8	23-173		
Surrogate: Toluene-d8	0.0390		"	0.0400		97.5	20-170		
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0400		93.9	21-167		

Matrix Spike (BDJ0312-MS1)

Source: 2010265-01

Prepared: 10/23/20 Analyzed: 10/26/20

Surrogate: 1,2-Dichloroethane-d4	0.0309		mg/kg	0.0400		77.2	23-173		
Surrogate: Toluene-d8	0.0388		"	0.0400		97.0	20-170		
Surrogate: 4-Bromofluorobenzene	0.0379		"	0.0400		94.7	21-167		

Matrix Spike Dup (BDJ0312-MSD1)

Source: 2010265-01

Prepared: 10/23/20 Analyzed: 10/26/20

Surrogate: 1,2-Dichloroethane-d4	0.0311		mg/kg	0.0400		77.8	23-173		
Surrogate: Toluene-d8	0.0384		"	0.0400		96.1	20-170		
Surrogate: 4-Bromofluorobenzene	0.0382		"	0.0400		95.6	21-167		

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Project: Critter Creek 9-15H
Project Number: 027318130
Project Manager: Jeremy Pike

Reported:
10/28/20 14:17

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BDJ0311 - EPA 3550A

Blank (BDJ0311-BLK1)

Prepared: 10/23/20 Analyzed: 10/27/20

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

LCS (BDJ0311-BS1)

Prepared: 10/23/20 Analyzed: 10/27/20

C10-C28 (DRO)	616	50	mg/kg	500	123	70-130
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Matrix Spike (BDJ0311-MS1)

Source: 2010265-01

Prepared: 10/23/20 Analyzed: 10/27/20

C10-C28 (DRO)	630	50	mg/kg	500	34.3	119	70-130
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Matrix Spike Dup (BDJ0311-MSD1)

Source: 2010265-01

Prepared: 10/23/20 Analyzed: 10/27/20

C10-C28 (DRO)	576	50	mg/kg	500	34.3	108	70-130	8.91	20
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4600 West 60th Avenue
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Project: Critter Creek 9-15H

Project Number: 027318130
Project Manager: Jeremy Pike

Reported:
10/28/20 14:17

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

Summit Scientific

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

Batch BDJ0307 - General Preparation

LCS (BDJ0307-BS1)

Prepared & Analyzed: 10/23/20

pH	9.51	pH Units	9.21	103	95-105
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Duplicate (BDJ0307-DUP1)

Source: 2010267-01

Prepared & Analyzed: 10/23/20

pH	8.37	pH Units	8.37	0.00	20
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4600 West 60th Avenue
Arvada CO, 80003

Project: Critter Creek 9-15H

Project Number: 027318130
Project Manager: Jeremy Pike

Reported:
10/28/20 14:17

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
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