

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

August 31, 2017

Gentry Muniz
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: Snowbird 16-15

Enclosed are the results of analyses for samples received by Summit Scientific on 08/25/17 14:34. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Ben Shrewsbury', with a long, sweeping horizontal line extending to the right.

Ben Shrewsbury
Laboratory Manager



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

Project: Snowbird 16-15

Project Number: 035717002
Project Manager: Gentry Muniz

Reported:
08/31/17 19:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	1708234-01	Soil	08/24/17 09:15	08/25/17 14:34
SS02	1708234-02	Soil	08/24/17 09:30	08/25/17 14:34
SS03	1708234-03	Soil	08/24/17 09:45	08/25/17 14:34

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.

Summit Scientific

S₂

1708234

741 Corporate Circle, Suite J ♦ Golden, Colorado 80401

303-277-9310 ♦ 303-374-5933

Page 1 of 1

Client: LTE Project Manager: Genby Muniz
 Address: _____ E-Mail: gmuniz@lterv.com
 City/State/Zip: _____
 Phone: 303 433 9788 Fax: _____ Project Name: Snowbird 16-15
 Sampler Name: gmuniz Project Number: 035717002

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)	BTEX	TPH, GLO, DEO	EC	pH	SAR		
1	SS01	8/24/17	0915	4			/			/				/	/	/	/		
2	SS02	↓	0930	4			/			/				/	/	/	/		
3	SS03	↓	0945	4			/			/				/	/	/	/		
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Relinquished by: <u>[Signature]</u>	Date/Time: <u>8/25/17 1434</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8/25/17 1434</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/>
				24 hours <input type="checkbox"/>	Standard <input checked="" type="checkbox"/>
				48 hours <input type="checkbox"/>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:	on ice
				Temperature Upon Receipt: <u>4.0</u>	
				Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	

Sample Receipt Checklist

S2 Work Order: 1708234

Client: LTE Client Project ID: Snowbird 16-15

Shipped Via: PIU Airbill #: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

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

Cooler ID					
Temp (°C)	<u>4.0</u>				

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.	✓			
Were all samples received intact ⁽¹⁾ ?	✓			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
If custody seals are present, are they intact ⁽¹⁾ ?			✓	
Are short holding time analytes or samples with HTs due within 48 hours present?			✓	
Is a chain-of-custody (COC) form present and filled out completely ⁽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⁾ ?	✓			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	✓			
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, H2SO4, NaOH, HNO3, ect			✓	
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.

Nakita
 Custodian Printed Name

[Signature]
 Signature or Initials of Custodian

8/25/17 1515
 Date/Time



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

Project: Snowbird 16-15

Project Number: 035717002
Project Manager: Gentry Muniz

Reported:
08/31/17 19:29

SS01
1708234-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/24/17 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1708262	08/28/17	08/29/17	8015M	

Date Sampled: **08/24/17 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		95.6 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/24/17 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1708264	08/28/17	08/28/17	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/24/17 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		114 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

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

Date Sampled: **08/24/17 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2760	10.9	mg/kg dry	1	1708273	08/29/17	08/30/17	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	367	5.43	"	"	"	"	"	"	

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.



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

Project: Snowbird 16-15

Project Number: 035717002
 Project Manager: Gentry Muniz

Reported:
 08/31/17 19:29

SS01
1708234-01 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	4830	5.43	mg/kg dry	1	1708273	08/29/17	08/30/17	EPA 6020/Mod. USDA60 6(2, 3A)	
Sodium Adsorption Ratio	22.9		units	"	1708297	08/31/17	08/31/17	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/24/17 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.1		%	1	1708261	08/28/17	08/29/17	% calculation	
pH	7.33	0.100	pH Units	"	1708285	08/30/17	08/30/17	EPA 9045	
Specific Conductance (EC)	43.1	0.0100	mmhos/cm	"	1708286	08/30/17	08/30/17	SM 2510B	

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.



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

Project: Snowbird 16-15

Project Number: 035717002
Project Manager: Gentry Muniz

Reported:
08/31/17 19:29

SS02
1708234-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/24/17 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1708262	08/28/17	08/29/17	8015M	

Date Sampled: **08/24/17 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		92.2 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/24/17 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1708264	08/28/17	08/28/17	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/24/17 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

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

Date Sampled: **08/24/17 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	4710	11.8	mg/kg dry	1	1708273	08/29/17	08/30/17	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	698	5.88	"	"	"	"	"	"	

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.



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

Project: Snowbird 16-15

Project Number: 035717002
 Project Manager: Gentry Muniz

Reported:
 08/31/17 19:29

SS02
1708234-02 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	1250	5.88	mg/kg dry	1	1708273	08/29/17	08/30/17	EPA 6020/Mod. USDA60 6(2, 3A)	
Sodium Adsorption Ratio	4.50		units	"	1708297	08/31/17	08/31/17	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/24/17 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	10.6	0.0100	mmhos/cm	1	1708286	08/30/17	08/30/17	SM 2510B	
% Solids	85.0		%	"	1708261	08/28/17	08/29/17	% calculation	
pH	7.52	0.100	pH Units	"	1708285	08/30/17	08/30/17	EPA 9045	

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.



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

Project: Snowbird 16-15

Project Number: 035717002
Project Manager: Gentry Muniz

Reported:
08/31/17 19:29

SS03
1708234-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/24/17 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1708262	08/28/17	08/29/17	8015M	

Date Sampled: **08/24/17 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		88.2 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/24/17 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1708264	08/28/17	08/28/17	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/24/17 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	21-167		"	"	"	"	

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

Date Sampled: **08/24/17 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	4710	11.7	mg/kg dry	1	1708273	08/29/17	08/30/17	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	603	5.87	"	"	"	"	"	"	

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.



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

Project: Snowbird 16-15

Project Number: 035717002
Project Manager: Gentry Muniz

Reported:
08/31/17 19:29

SS03
1708234-03 (Soil)

Summit Scientific

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

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	1890	5.87	mg/kg dry	1	1708273	08/29/17	08/30/17	EPA 6020/Mod. USDA60 6(2, 3A)	
Sodium Adsorption Ratio	6.89		units	"	1708297	08/31/17	08/31/17	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/24/17 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.49	0.100	pH Units	1	1708285	08/30/17	08/30/17	EPA 9045	
Specific Conductance (EC)	17.7	0.0100	mmhos/cm	"	1708286	08/30/17	08/30/17	SM 2510B	
% Solids	85.2		%	"	1708261	08/28/17	08/29/17	% calculation	

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.



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

Project: Snowbird 16-15

Project Number: 035717002
Project Manager: Gentry Muniz

Reported:
08/31/17 19:29

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1708262 - EPA 3550A

Blank (1708262-BLK1)				Prepared & Analyzed: 08/28/17							
C10-C28 (DRO)	ND	50	mg/kg								
Surrogate: <i>o</i> -Terphenyl	12.1		"	12.5		96.6	30-150				
LCS (1708262-BS1)				Prepared & Analyzed: 08/28/17							
C10-C28 (DRO)	526	50	mg/kg	499		105	73-134				
Surrogate: <i>o</i> -Terphenyl	12.7		"	12.5		102	30-150				
Matrix Spike (1708262-MS1)				Source: 1708230-01		Prepared & Analyzed: 08/28/17					
C10-C28 (DRO)	505	50	mg/kg	499	45.7	92.0	50-148				
Surrogate: <i>o</i> -Terphenyl	11.6		"	12.5		92.6	30-150				
Matrix Spike Dup (1708262-MSD1)				Source: 1708230-01		Prepared & Analyzed: 08/28/17					
C10-C28 (DRO)	500	50	mg/kg	499	45.7	91.1	50-148	0.875		20	
Surrogate: <i>o</i> -Terphenyl	11.6		"	12.5		93.1	30-150				

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.



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

Project: Snowbird 16-15

Project Number: 035717002
Project Manager: Gentry Muniz

Reported:
08/31/17 19:29

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 1708264 - EPA 5030 Soil MS

Blank (1708264-BLK1)

Prepared & Analyzed: 08/28/17

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0439</i>		<i>"</i>	<i>0.0400</i>		<i>110</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0407</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0404</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>21-167</i>			

LCS (1708264-BS1)

Prepared & Analyzed: 08/28/17

Benzene	0.107	0.0020	mg/kg	0.100		107	58-130			
Toluene	0.109	0.0050	"	0.100		109	61-134			
Ethylbenzene	0.105	0.0050	"	0.0992		106	74-139			
m,p-Xylene	0.196	0.010	"	0.200		98.2	73-137			
o-Xylene	0.0975	0.0050	"	0.0980		99.5	73-141			
Xylenes (total)	0.293	0.0050	"				30-150			
Gasoline Range Hydrocarbons	2.23	0.50	"				30-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0436</i>		<i>"</i>	<i>0.0400</i>		<i>109</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0452</i>		<i>"</i>	<i>0.0400</i>		<i>113</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0420</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>21-167</i>			

Matrix Spike (1708264-MS1)

Source: 1708234-01

Prepared & Analyzed: 08/28/17

Benzene	0.117	0.0020	mg/kg	0.100	ND	117	30-131			
Toluene	0.118	0.0050	"	0.100	ND	118	30-134			
Ethylbenzene	0.119	0.0050	"	0.0992	ND	120	22-153			
m,p-Xylene	0.221	0.010	"	0.200	ND	111	10-159			
o-Xylene	0.109	0.0050	"	0.0980	ND	111	31-151			
Xylenes (total)	0.330	0.0050	"		ND		30-150			
Gasoline Range Hydrocarbons	2.56	0.50	"		ND		30-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0460</i>		<i>"</i>	<i>0.0400</i>		<i>115</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0434</i>		<i>"</i>	<i>0.0400</i>		<i>109</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0407</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>21-167</i>			

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.



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

Project: Snowbird 16-15

Project Number: 035717002
Project Manager: Gentry Muniz

Reported:
08/31/17 19:29

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 1708264 - EPA 5030 Soil MS

Matrix Spike Dup (1708264-MSD1)	Source: 1708234-01			Prepared & Analyzed: 08/28/17						
Benzene	0.120	0.0020	mg/kg	0.100	ND	120	30-131	2.94	34	
Toluene	0.123	0.0050	"	0.100	ND	123	30-134	3.44	30	
Ethylbenzene	0.127	0.0050	"	0.0992	ND	128	22-153	6.84	24	
m,p-Xylene	0.235	0.010	"	0.200	ND	118	10-159	6.08	68	
o-Xylene	0.117	0.0050	"	0.0980	ND	120	31-151	7.32	38	
Xylenes (total)	0.352	0.0050	"		ND		30-150	6.50	20	
Gasoline Range Hydrocarbons	2.73	0.50	"		ND		30-150	6.52	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0477</i>		<i>"</i>	<i>0.0400</i>		<i>119</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0424</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0412</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>21-167</i>			

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.



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

Project: Snowbird 16-15

Project Number: 035717002
Project Manager: Gentry Muniz

Reported:
08/31/17 19:29

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 1708273 - General Preparation

Blank (1708273-BLK1)

Prepared: 08/29/17 Analyzed: 08/30/17

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

LCS (1708273-BS1)

Prepared: 08/29/17 Analyzed: 08/30/17

Calcium	490	10.0	mg/kg wet	500		98.0	82.9-118		
Magnesium	552	5.00	"	500		110	77.1-123		
Sodium	531	5.00	"	500		106	71-129		

Duplicate (1708273-DUP1)

Source: 1708230-01

Prepared: 08/29/17 Analyzed: 08/30/17

Calcium	7920	11.4	mg/kg dry		7470			5.74	200
Magnesium	1640	5.68	"		1640			0.401	200
Sodium	4530	5.68	"		4700			3.81	200

Matrix Spike (1708273-MS1)

Source: 1708230-01

Prepared: 08/29/17 Analyzed: 08/30/17

Calcium	8040	11.4	mg/kg dry	568	7470	99.0	75-125		
Magnesium	2320	5.68	"	568	1640	119	75-125		
Sodium	5170	5.68	"	568	4700	82.1	75-125		

Matrix Spike Dup (1708273-MSD1)

Source: 1708230-01

Prepared: 08/29/17 Analyzed: 08/30/17

Calcium	8160	11.4	mg/kg dry	568	7470	121	75-125	1.54	25
Magnesium	2310	5.68	"	568	1640	117	75-125	0.619	25
Sodium	5250	5.68	"	568	4700	96.4	75-125	1.56	25

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.



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

Project: Snowbird 16-15

Project Number: 035717002
Project Manager: Gentry Muniz

Reported:
08/31/17 19:29

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 1708261 - General Preparation

Duplicate (1708261-DUP1)	Source: 1708220-01			Prepared: 08/28/17 Analyzed: 08/29/17						
% Solids	81.1		%		80.7			0.494	20	

Batch 1708285 - General Preparation

LCS (1708285-BS1)				Prepared & Analyzed: 08/30/17						
pH	9.18	0.100	pH Units	9.16		100	95-105			
Duplicate (1708285-DUP1)	Source: 1708234-01			Prepared & Analyzed: 08/30/17						
pH	7.35	0.100	pH Units	7.33				0.272	20	

Batch 1708286 - General Preparation

Blank (1708286-BLK1)				Prepared & Analyzed: 08/30/17						
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
LCS (1708286-BS1)				Prepared & Analyzed: 08/30/17						
Specific Conductance (EC)	0.750	0.0100	mmhos/cm	0.750		99.9	90-110			
Duplicate (1708286-DUP1)	Source: 1708234-01			Prepared & Analyzed: 08/30/17						
Specific Conductance (EC)	43.1	0.0100	mmhos/cm	43.1				0.0116	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.



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

Project: Snowbird 16-15

Project Number: 035717002
Project Manager: Gentry Muniz

Reported:
08/31/17 19:29

Notes and Definitions

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