

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 26, 2019

Jeremy Pike

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: Vic 1

Work Order # 1907263

Enclosed are the results of analyses for samples received by Summit Scientific on 07/23/19 17:21. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Paul Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury For Ben Shrewsbury

Laboratory Manager



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

Project: Vic 1

Project Number: 027318139  
Project Manager: Jeremy Pike

**Reported:**  
07/26/19 06:48

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@19'	1907263-01	Soil	07/23/19 15:45	07/23/19 17:21

Summit Scientific

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# Summit Scientific

S<sub>2</sub>

1907263

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 1

Client: LT Environmental, Inc.

Project Manager: Jeremy Pike

Address: 4600 West 60th Avenue

E-Mail: [jpike@ltenv.com](mailto:jpike@ltenv.com)

City/State/Zip: Arvada, Colorado 80003

Phone: 303-433-9788

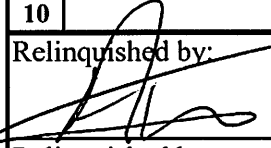

Project Name: Vic 1

Sampler Name: Andrew Gertsch

Project Number: 027318139

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions			
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	GBTEX	TPH-DRO										
1	55-61	7/23/19	3:45	1						X														
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								

Relinquished by: 	Date/Time: 7/23/19 5:20	Received by: 	Date/Time: 7-23-19 17:20	<b>Turn Around Time</b> (Check) Same Day <input checked="" type="checkbox"/> 72 hours ___ 24 hours ___ Standard 48 hours ___ <b>Sample Integrity:</b> Temperature Upon Receipt: 9.9° Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No
Relinquished by:	Date/Time:	Received by:	Date/Time:	
Relinquished by:	Date/Time:	Received by:	Date/Time:	

# Sample Receipt Checklist

S2 Work Order 1907263

Client: LTE Client Project ID: Vic 1

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>9.9°</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 <sup>(1)</sup> ? 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 <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"/>	
If custody seals are present, are they intact <sup>(1)</sup> ?	<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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Same Day</u>
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"/>	
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"/>	
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"/>	
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, 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 <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.

AT  
Custodian Printed Name or Initials

[Signature]  
Signature of Custodian

7-23-19 17:20  
Date/Time



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

Project: Vic 1

Project Number: 027318139  
Project Manager: Jeremy Pike

**Reported:**  
07/26/19 06:48

**SS01@19'**  
**1907263-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/23/19 15:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	3.3	0.20	mg/kg	100	1907326	07/23/19	07/24/19	EPA 8260B	
Toluene	110	0.50	"	"	"	"	"	"	E
Ethylbenzene	81	0.50	"	"	"	"	"	"	E
Xylenes (total)	690	1.0	"	"	"	"	"	"	E
Gasoline Range Hydrocarbons	11000	50	"	"	"	"	"	"	E

Date Sampled: **07/23/19 15:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		88.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		338 %	21-167		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **07/23/19 15:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	2300	50	mg/kg	1	1907327	07/23/19	07/23/19	EPA 8015M	

Date Sampled: **07/23/19 15:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		117 %	30-150		"	"	"	"	

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Arvada CO, 80003

Project: Vic 1

Project Number: 027318139  
Project Manager: Jeremy Pike

**Reported:**  
07/26/19 06:48

## 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	Notes

#### Batch 1907326 - EPA 5030 Soil MS

##### Blank (1907326-BLK1)

Prepared: 07/23/19 Analyzed: 07/24/19

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0233		"	0.0400		58.2	23-173			
Surrogate: Toluene-d8	0.0365		"	0.0400		91.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0352		"	0.0400		88.0	21-167			

##### LCS (1907326-BS1)

Prepared: 07/23/19 Analyzed: 07/24/19

Benzene	0.0785	0.0020	mg/kg	0.100		78.5	70-130			
Toluene	0.0870	0.0050	"	0.100		87.0	70-130			
Ethylbenzene	0.117	0.0050	"	0.100		117	70-130			
m,p-Xylene	0.231	0.010	"	0.200		115	70-130			
o-Xylene	0.102	0.0050	"	0.100		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0234		"	0.0400		58.6	23-173			
Surrogate: Toluene-d8	0.0377		"	0.0400		94.2	20-170			
Surrogate: 4-Bromofluorobenzene	0.0351		"	0.0400		87.8	21-167			

##### Matrix Spike (1907326-MS1)

Source: 1907262-03

Prepared: 07/23/19 Analyzed: 07/24/19

Benzene	0.0823	0.0020	mg/kg	0.100	ND	82.3	70-130			
Toluene	0.0901	0.0050	"	0.100	ND	90.1	70-130			
Ethylbenzene	0.111	0.0050	"	0.100	ND	111	70-130			
m,p-Xylene	0.221	0.010	"	0.200	0.00351	109	70-130			
o-Xylene	0.100	0.0050	"	0.100	ND	100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0281		"	0.0400		70.2	23-173			
Surrogate: Toluene-d8	0.0382		"	0.0400		95.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0356		"	0.0400		89.0	21-167			

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Project: Vic 1

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Project Manager: Jeremy Pike

**Reported:**  
07/26/19 06:48

**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	Notes

**Batch 1907326 - EPA 5030 Soil MS**

**Matrix Spike Dup (1907326-MSD1)**

**Source: 1907262-03**

Prepared: 07/23/19 Analyzed: 07/24/19

Benzene	0.0790	0.0020	mg/kg	0.100	ND	79.0	70-130	4.09	30	
Toluene	0.0860	0.0050	"	0.100	ND	86.0	70-130	4.67	30	
Ethylbenzene	0.114	0.0050	"	0.100	ND	114	70-130	2.70	30	
m,p-Xylene	0.225	0.010	"	0.200	0.00351	111	70-130	2.01	30	
o-Xylene	0.100	0.0050	"	0.100	ND	100	70-130	0.180	30	
Surrogate: 1,2-Dichloroethane-d4	0.0245		"	0.0400		61.4	23-173			
Surrogate: Toluene-d8	0.0371		"	0.0400		92.8	20-170			
Surrogate: 4-Bromofluorobenzene	0.0351		"	0.0400		87.8	21-167			

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**Reported:**  
07/26/19 06:48

**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 1907327 - EPA 3550A**

**Blank (1907327-BLK1)**

Prepared: 07/23/19 Analyzed: 07/24/19

C10-C28 (DRO) ND 50 mg/kg

**LCS (1907327-BS1)**

Prepared: 07/23/19 Analyzed: 07/24/19

C10-C28 (DRO) 531 50 mg/kg 500 106 70-130

**Matrix Spike (1907327-MS1)**

**Source: 1907262-03**

Prepared: 07/23/19 Analyzed: 07/24/19

C10-C28 (DRO) 523 50 mg/kg 500 28.8 98.8 70-130

**Matrix Spike Dup (1907327-MSD1)**

**Source: 1907262-03**

Prepared: 07/23/19 Analyzed: 07/24/19

C10-C28 (DRO) 540 50 mg/kg 500 28.8 102 70-130 3.19 20

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### 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.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
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