

# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

May 15, 2018

Jeremy Pike  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: Reservoir Federal #1

Enclosed are the results of analyses for samples received by Summit Scientific on 05/08/18 16:00. 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 For Ben Shrewsbury  
Laboratory Manager



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

Project: Reservoir Federal #1

Project Number: 027317021  
Project Manager: Jeremy Pike

**Reported:**  
05/15/18 11:21

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	1805086-01	Water	05/08/18 12:50	05/08/18 16:00
MW02	1805086-02	Water	05/08/18 13:05	05/08/18 16:00
MW03	1805086-03	Water	05/08/18 13:50	05/08/18 16:00
MW04	1805086-04	Water	05/08/18 13:35	05/08/18 16:00
MW05	1805086-05	Water	05/08/18 14:05	05/08/18 16:00
MW06	1805086-06	Water	05/08/18 13:20	05/08/18 16:00

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# Summit Scientific

1805086

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

Page 1 of 1

Client: LT Environmental, Inc.  
Address: 4600 W. 60th Ave.  
City/State/Zip: Arvada, Colorado 80003  
Phone: 303-433-9788 Fax:  
Sampler Name: Drew Bullinger

Project Manager: Jeremy Pike  
E-Mail: jpike@ltenv.com, rrebel@ltenv.com  
Project Name: Reservoir Federal #1  
Project Number: 027317021

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix				Analyze For:												Special Instructions		
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX EPA 8260														
MW01	5/8/18	12:50	3	X				X					X													
MW02	5/8/18	13:05	3	X				X					X													
MW03	5/8/18	13:50	3	X				X					X													
MW04	5/8/18	13:35	3	X				X					X													
MW05	5/8/18	14:05	3	X				X					X													
MW06	5/8/18	13:20	3	X				X					X													
Relinquished by: <u>Drew Bullinger</u>				Date/Time: <u>5/8/18 16:00</u>		Received by: <u>[Signature]</u>				Date/Time: <u>5-8-18 16:00</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 in Lab by:				Date/Time:		Sample Integrity: Temperature Upon Receipt: <u>4.2</u> Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														

## Sample Receipt Checklist

S2 Work Order: 1805086Client: LT Env. Client Project ID: Reservoir Federal #1Shipped Via: P.U.  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: \_\_\_\_\_

Matrix (check all that apply):      Air   X   Soil/Solid   X   Water      Other: \_\_\_\_\_  
(Describe)

Cooler ID					
Temp (°C)	4.2				

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> ?	X			
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 <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> ?	X			HCL
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 <sup>(1)</sup> ?			X	
Record the pH in Comments.				
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  
Custodian Printed Name5-8-18  
Signature or Initials of Custodian17:40  
Date/Time



LT Environmental, Inc.  
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Arvada CO, 80003

Project: Reservoir Federal #1  
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**Reported:**  
05/15/18 11:21

**MW01**  
**1805086-01 (Water)**

**Summit Scientific**

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

Date Sampled: **05/08/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1805080	05/08/18	05/11/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **05/08/18 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		123 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		95.4 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	70-130		"	"	"	"	

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Reported:  
05/15/18 11:21

**MW02**  
**1805086-02 (Water)**

**Summit Scientific**

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

Date Sampled: **05/08/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>26</b>	1.0	ug/l	1	1805080	05/08/18	05/11/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **05/08/18 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		118 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		95.6 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	70-130		"	"	"	"	

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Project Manager: Jeremy Pike

Reported:  
05/15/18 11:21

**MW03**  
**1805086-03 (Water)**

**Summit Scientific**

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

Date Sampled: **05/08/18 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>730</b>	25	ug/l	25	1805080	05/08/18	05/11/18	EPA 8260B	
<b>Toluene</b>	<b>1.1</b>	1.0	"	1	"	"	"	"	
<b>Ethylbenzene</b>	<b>1000</b>	25	"	25	"	"	"	"	
<b>Xylenes (total)</b>	<b>3100</b>	50	"	"	"	"	"	"	

Date Sampled: **05/08/18 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		130 %	70-130		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.4 %	70-130		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		110 %	70-130		"	"	"	"	

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Project Manager: Jeremy Pike

**Reported:**  
05/15/18 11:21

**MW04**  
**1805086-04 (Water)**

**Summit Scientific**

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

Date Sampled: **05/08/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1805080	05/08/18	05/11/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **05/08/18 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		122 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		96.8 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	70-130		"	"	"	"	

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Reported:  
05/15/18 11:21

**MW05**  
**1805086-05 (Water)**

**Summit Scientific**

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

Date Sampled: **05/08/18 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>1300</b>	25	ug/l	25	1805080	05/08/18	05/11/18	EPA 8260B	
<b>Toluene</b>	<b>3.8</b>	1.0	"	1	"	"	"	"	
<b>Ethylbenzene</b>	<b>600</b>	25	"	25	"	"	"	"	
<b>Xylenes (total)</b>	<b>2100</b>	50	"	"	"	"	"	"	

Date Sampled: **05/08/18 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		131 %	70-130		"	"	"	"	S-02
<i>Surrogate: Toluene-d8</i>		98.5 %	70-130		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		109 %	70-130		"	"	"	"	

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**MW06**  
**1805086-06 (Water)**

**Summit Scientific**

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

Date Sampled: **05/08/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1805080	05/08/18	05/11/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **05/08/18 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		123 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		96.7 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	70-130		"	"	"	"	

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## 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 1805080 - EPA 5030 Water MS

##### Blank (1805080-BLK1)

Prepared: 05/08/18 Analyzed: 05/09/18

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	14.0		"	13.2		106	70-130			
Surrogate: Toluene-d8	13.3		"	13.3		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		100	70-130			

##### LCS (1805080-BS1)

Prepared: 05/08/18 Analyzed: 05/09/18

Benzene	50.8	1.0	ug/l	50.0		102	70-130			
Toluene	50.6	1.0	"	50.0		101	70-130			
Ethylbenzene	51.3	1.0	"	50.0		103	70-130			
m,p-Xylene	100	2.0	"	100		100	70-130			
o-Xylene	52.1	1.0	"	50.0		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.7		"	13.2		104	70-130			
Surrogate: Toluene-d8	13.5		"	13.3		101	70-130			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.4	70-130			

##### Matrix Spike (1805080-MS1)

Source: 1805060-01

Prepared: 05/08/18 Analyzed: 05/09/18

Benzene	70.6	1.0	ug/l	50.0		141	70-130			QM-07
Toluene	71.1	1.0	"	50.0		142	70-130			QM-07
Ethylbenzene	72.6	1.0	"	50.0		145	70-130			QM-07
m,p-Xylene	142	2.0	"	100		142	70-130			QM-07
o-Xylene	72.5	1.0	"	50.0		145	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	12.8		"	13.2		96.8	70-130			
Surrogate: Toluene-d8	13.6		"	13.3		102	70-130			
Surrogate: 4-Bromofluorobenzene	13.8		"	13.3		103	70-130			

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05/15/18 11:21

**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 1805080 - EPA 5030 Water MS**

Matrix Spike Dup (1805080-MSD1)		Source: 1805060-01			Prepared: 05/08/18		Analyzed: 05/09/18			
Benzene	57.0	1.0	ug/l	50.0	114	70-130	21.4	30		QM-07
Toluene	57.7	1.0	"	50.0	115	70-130	20.9	30		QM-07
Ethylbenzene	58.2	1.0	"	50.0	116	70-130	22.0	30		QM-07
m,p-Xylene	114	2.0	"	100	114	70-130	22.1	30		QM-07
o-Xylene	59.3	1.0	"	50.0	119	70-130	20.0	30		QM-07
Surrogate: 1,2-Dichloroethane-d4	13.1		"	13.2	99.2	70-130				
Surrogate: Toluene-d8	13.4		"	13.3	100	70-130				
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3	97.2	70-130				

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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.
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