

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

March 02, 2018

Robert Rebel
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 02/23/18 16:40. 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: Reservoir Federal #1

Project Number: 027317021
Project Manager: Robert Rebel

Reported:
03/02/18 15:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	1802258-01	Water	02/23/18 12:30	02/23/18 16:40
MW02	1802258-02	Water	02/23/18 12:05	02/23/18 16:40
MW03	1802258-03	Water	02/23/18 14:40	02/23/18 16:40
MW04	1802258-04	Water	02/23/18 14:01	02/23/18 16:40
MW05	1802258-05	Water	02/23/18 13:13	02/23/18 16:40
MW06	1802258-06	Water	02/23/18 12:45	02/23/18 16:40

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303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: LT Environmental
Address: 4600 W 60th Ave
City/State/Zip: Arvada CO 80003
Phone: 303-431-9788 Fax:
Sampler Name: Drew Bullinger

Project Manager: Robert Rebel
E-Mail: rebel@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 ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX				
Mw01	2/23/18	11:30	3	X				X				X				
Mw02	2/23/18	12:05	3	X				X				X				
Mw03	2/23/18	14:40	3	X				X				X				
Mw04	2/23/18	19:01	3	X				X				X				
Mw05	2/23/18	13:15	3	X				X				X				
Mw06	2/23/18	12:45	3	X				X				X				
Relinquished by: <u>Drew Bullinger</u> Date/Time: <u>2/23/18 1645</u>				Received by: <u>[Signature]</u> Date/Time: <u>2/23/18 1645</u>				Turn Around Time (Check)				Notes:				
								Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/>				Standard <input checked="" type="checkbox"/>				
								48 Hours <input type="checkbox"/>				un ice				
Relinquished by:				Received in Lab by:				Sample Integrity:				Temperature Upon Receipt: <u>1.3°C</u>				
								Intact: <input checked="" type="checkbox"/> No <input type="checkbox"/>								

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Sample Receipt Checklist

S2 Work Order: _____

Client: LT Environmental Client Project ID: Reservoir Federal #1

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

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

Cooler ID					
Temp (°C)	1.3				

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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⁾ ?	<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 short holding time analytes or samples with HTs 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 checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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 ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Record the pH in Comments.				
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.

Nakita
Custodian Printed Name

[Signature]
Signature or Initials of Custodian

2/23/18 1735
Date/Time

[Signature]



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

Project: Reservoir Federal #1

Project Number: 027317021
 Project Manager: Robert Rebel

Reported:
 03/02/18 15:30

MW01
1802258-01 (Water)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/23/18 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1802248	02/27/18	02/27/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/23/18 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		100 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		93.1 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.9 %	45-146		"	"	"	"	

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Reported:
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MW02
1802258-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/23/18 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	6.9	1.0	ug/l	1	1802248	02/27/18	02/27/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/23/18 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		92.1 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96.6 %	45-146		"	"	"	"	

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Reported:
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MW03
1802258-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/23/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	540	10	ug/l	10	1802248	02/27/18	02/27/18	EPA 8260B	
Toluene	1.2	1.0	"	1	"	"	"	"	
Ethylbenzene	1100	10	"	10	"	"	"	"	
Xylenes (total)	960	2.0	"	1	"	"	"	"	

Date Sampled: **02/23/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		134 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		94.7 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.5 %	45-146		"	"	"	"	

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Reported:
 03/02/18 15:30

MW04
1802258-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/23/18 14:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	110	1.0	ug/l	1	1802248	02/27/18	03/01/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	2.4	1.0	"	"	"	"	"	"	
Xylenes (total)	4.6	2.0	"	"	"	"	"	"	

Date Sampled: **02/23/18 14:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		101 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		96.2 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	45-146		"	"	"	"	

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MW05
1802258-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/23/18 13:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	1900	100	ug/l	100	1802248	02/26/18	03/01/18	EPA 8260B	
Toluene	2.4	1.0	"	1	"	"	03/01/18	"	
Ethylbenzene	1000	100	"	100	"	"	03/01/18	"	
Xylenes (total)	2700	200	"	"	"	"	"	"	

Date Sampled: **02/23/18 13:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		134 %	37-154		"	"	03/01/18	"	
<i>Surrogate: Toluene-d8</i>		95.1 %	45-149		"	"	03/01/18	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	45-146		"	"	03/01/18	"	

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Reported:
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MW06
1802258-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/23/18 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1802248	02/26/18	03/01/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/23/18 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	37-154		"	"	03/01/18	"	
Surrogate: Toluene-d8		95.4 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.9 %	45-146		"	"	03/01/18	"	

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch 1802248 - EPA 5030 Water MS

Blank (1802248-BLK1)

Prepared & Analyzed: 02/27/18

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	12.5		"	13.3		93.9	37-154			
Surrogate: Toluene-d8	13.1		"	13.3		98.0	45-149			
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102	45-146			

LCS (1802248-BS1)

Prepared & Analyzed: 02/27/18

Benzene	35.4	1.0	ug/l	33.3		106	51-132			
Toluene	33.1	1.0	"	33.3		99.3	51-138			
Ethylbenzene	42.7	1.0	"	33.1		129	58-146			
m,p-Xylene	78.2	2.0	"	66.5		118	57-144			
o-Xylene	41.7	1.0	"	32.7		128	53-146			
Surrogate: 1,2-Dichloroethane-d4	12.1		"	13.3		90.8	37-154			
Surrogate: Toluene-d8	12.5		"	13.3		93.5	45-149			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		100	45-146			

Matrix Spike (1802248-MS1)

Source: 1802242-01

Prepared & Analyzed: 02/27/18

Benzene	37.1	1.0	ug/l	33.3	ND	111	34-141			
Toluene	35.3	1.0	"	33.3	ND	106	27-151			
Ethylbenzene	42.7	1.0	"	33.1	ND	129	29-160			
m,p-Xylene	77.8	2.0	"	66.5	ND	117	20-166			
o-Xylene	41.9	1.0	"	32.7	ND	128	33-159			
Surrogate: 1,2-Dichloroethane-d4	12.7		"	13.3		95.3	37-154			
Surrogate: Toluene-d8	13.5		"	13.3		101	45-149			
Surrogate: 4-Bromofluorobenzene	13.8		"	13.3		104	45-146			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
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Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1802248 - EPA 5030 Water MS

Matrix Spike Dup (1802248-MSD1)	Source: 1802242-01			Prepared & Analyzed: 02/27/18						
Benzene	40.8	1.0	ug/l	33.3	ND	122	34-141	9.52	32	
Toluene	33.4	1.0	"	33.3	ND	100	27-151	5.48	25	
Ethylbenzene	43.6	1.0	"	33.1	ND	132	29-160	2.13	50	
m,p-Xylene	79.2	2.0	"	66.5	ND	119	20-166	1.76	36	
o-Xylene	42.5	1.0	"	32.7	ND	130	33-159	1.37	26	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.8</i>		<i>"</i>	<i>13.3</i>		<i>104</i>	<i>37-154</i>			
<i>Surrogate: Toluene-d8</i>	<i>12.4</i>		<i>"</i>	<i>13.3</i>		<i>92.7</i>	<i>45-149</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.9</i>		<i>"</i>	<i>13.3</i>		<i>104</i>	<i>45-146</i>			

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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