

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

February 05, 2020

Jeremy Pike

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: F-26 Bradenhead Sampling

Work Order #1909276

Enclosed are the results of analyses for samples received by Summit Scientific on 09/23/19 17:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Ben Shrewsbury  
Laboratory Manager



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

Project: F-26 Bradenhead Sampling

Project Number: [none]  
Project Manager: Jeremy Pike

**Reported:**  
02/05/20 11:39

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
North Platte E14-A11-23HB	1909276-02	Water	09/23/19 11:45	09/23/19 17:25

Summit Scientific

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**Sample Receipt Checklist**

**1909276**

S2 Work Order \_\_\_\_\_

Client: LT Environmental Client Project ID: F-26 Bradenhead Sampling

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

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

Temp (°C)	9.6
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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.	✓			On Ice
Were all samples received intact <sup>(1)</sup> ?	✓			
Was adequate sample volume provided <sup>(1)</sup> ?	✓			
If custody seals are present, are they intact <sup>(1)</sup> ?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?	✓			anions
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	✓			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	✓			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	✓			
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	✓			
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>		✓		
Are samples preserved that require preservation <b>(excluding cooling)</b> <sup>(1)</sup> ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	✓			HCl HNO3
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ? Record the pH in Comments.	✓			
If dissolved metals are requested, were samples field filtered?		✓		

Additional Comments (if any):

BTEX, anions and cations should be analyzed first.

**If there is enough volume, run the rest of the requested analyses**

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

MP  
Custodian Printed Name or Initials

*Muri Premer*  
Signature of Custodian

9/23/19  
Date/Time



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02/05/20 11:39

**North Platte E14-A11-23HB**  
**1909276-02 (Water)**

Summit Scientific

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

Date Sampled: **09/23/19 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	230	1.0		ug/l	1	1909338	09/27/19	09/28/19	EPA 8260B	
Toluene	230	1.0		"	"	"	"	"	"	
Ethylbenzene	36	1.0		"	"	"	"	"	"	
Xylenes (total)	180	2.0		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	4000	500		"	"	"	"	"	"	

Date Sampled: **09/23/19 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		87.8 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		97.1 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.1 %		21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/23/19 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	11	5.0		mg/L	1	1909364	09/26/19	09/27/19	EPA 8015M	

Date Sampled: **09/23/19 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		103 %		58.9-148		"	"	"	"	

**Dissolved Gases by RSK-175**

Date Sampled: **09/23/19 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Methane	0.14	0.010		mg/L	1	1909323	09/27/19	10/02/19	RSK-175 mod	
Ethane	0.026	0.010		"	"	"	"	"	"	
Propane	ND	0.010		"	"	"	"	"	"	

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Project: F-26 Bradenhead Sampling

Project Number: [none]  
Project Manager: Jeremy Pike

**Reported:**  
02/05/20 11:39

**North Platte E14-A11-23HB**  
**1909276-02 (Water)**

**Summit Scientific**

**Dissolved Gases by RSK-175**

Date Sampled: **09/23/19 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Ethene		156 %	70-130		1909323	09/27/19	10/02/19	RSK-175 mod	S-02

**Total Metals by EPA Method 200.8**

Date Sampled: **09/23/19 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	550	0.500	mg/L	10	1909305	09/24/19	09/24/19	EPA 200.8	
Magnesium	0.177	0.0500	"	1	"	"	"	"	
Potassium	2040	0.500	"	10	"	"	"	"	
Sodium	630	0.500	"	"	"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **09/23/19 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	643	12.0	mg/L	200	1909361	09/26/19	09/26/19	EPA 300.0	
Sulfate	723	60.0	"	"	"	"	"	"	

**Alkalinity by SM2320**

Date Sampled: **09/23/19 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	4220	10.0	mg/L as CaCO3	1	1909392	09/27/19	10/01/19	SM2320-B	
Carbonate	720	10.0	"	"	"	"	"	"	
Bicarbonate	ND	10.0	"	"	"	"	"	"	
Hydroxide Alkalinity	3500	10.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

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Project Number: [none]  
 Project Manager: Jeremy Pike

**Reported:**  
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**North Platte E14-A11-23HB**  
**1909276-02 (Water)**

**Summit Scientific**

**Total Dissolved Solids by SM2540C**

Date Sampled: **09/23/19 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Total Dissolved Solids</b>	<b>9060</b>	10.0	mg/L	1	1909328	09/25/19	09/25/19	SM2540C	

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Project: F-26 Bradenhead Sampling

Project Number: [none]  
Project Manager: Jeremy Pike

**Reported:**  
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

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

**Batch 1909338 - EPA 5030 Water MS**

**Blank (1909338-BLK1)**

Prepared & Analyzed: 09/27/19

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Gasoline Range Hydrocarbons	ND	500	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	13.4		"	13.3		101		23-173			
<i>Surrogate: Toluene-d8</i>	12.7		"	13.3		95.0		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.8		"	13.3		95.8		21-167			

**LCS (1909338-BS1)**

Prepared & Analyzed: 09/27/19

Benzene	47.8	1.0	ug/l	50.0		95.6		70-130			
Toluene	50.6	1.0	"	50.0		101		70-130			
Ethylbenzene	45.8	1.0	"	50.0		91.6		70-130			
m,p-Xylene	85.3	2.0	"	100		85.3		70-130			
o-Xylene	43.7	1.0	"	50.0		87.4		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	14.1		"	13.3		105		23-173			
<i>Surrogate: Toluene-d8</i>	14.7		"	13.3		110		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.4		"	13.3		101		21-167			

**Matrix Spike (1909338-MS1)**

Source: 1909284-05

Prepared & Analyzed: 09/27/19

Benzene	50.3	1.0	ug/l	50.0	ND	101		70-130			
Toluene	55.4	1.0	"	50.0	ND	111		70-130			
Ethylbenzene	50.6	1.0	"	50.0	ND	101		70-130			
m,p-Xylene	94.4	2.0	"	100	1.09	93.4		70-130			
o-Xylene	48.4	1.0	"	50.0	ND	96.9		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	14.9		"	13.3		112		23-173			
<i>Surrogate: Toluene-d8</i>	14.9		"	13.3		112		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	14.4		"	13.3		108		21-167			

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Project Number: [none]  
 Project Manager: Jeremy Pike

**Reported:**  
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

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

**Batch 1909338 - EPA 5030 Water MS**

**Matrix Spike Dup (1909338-MSD1)**

Source: 1909284-05

Prepared & Analyzed: 09/27/19

Benzene	46.2	1.0	ug/l	50.0	ND	92.4	70-130	8.52	30	
Toluene	48.2	1.0	"	50.0	ND	96.5	70-130	13.9	30	
Ethylbenzene	45.9	1.0	"	50.0	ND	91.8	70-130	9.64	30	
m,p-Xylene	84.7	2.0	"	100	1.09	83.6	70-130	10.9	30	
o-Xylene	43.8	1.0	"	50.0	ND	87.6	70-130	10.1	30	
Surrogate: 1,2-Dichloroethane-d4	14.1		"	13.3		106	23-173			
Surrogate: Toluene-d8	14.2		"	13.3		106	20-170			
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102	21-167			

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**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch 1909364 - EPA 3520B**

**Blank (1909364-BLK1)**

Prepared: 09/26/19 Analyzed: 09/27/19

C10-C28 (DRO) ND 5.0 mg/L

**LCS (1909364-BS1)**

Prepared: 09/26/19 Analyzed: 09/27/19

C10-C28 (DRO) 57.3 5.0 mg/L 50.0 115 70-130

**Matrix Spike (1909364-MS1)**

**Source: 1909276-02**

Prepared: 09/26/19 Analyzed: 09/27/19

C10-C28 (DRO) 65.2 5.0 mg/L 50.0 11.0 108 70-130

**Matrix Spike Dup (1909364-MSD1)**

**Source: 1909276-02**

Prepared: 09/26/19 Analyzed: 09/27/19

C10-C28 (DRO) 64.7 5.0 mg/L 50.0 11.0 107 70-130 0.841 20

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**Reported:**  
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**Dissolved Gases by RSK-175 - Quality Control**  
**Summit Scientific**

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

**Batch 1909323 - GC**

**Blank (1909323-BLK1)**

Prepared: 09/27/19 Analyzed: 10/02/19

Methane	ND	0.010	mg/L								
Ethane	ND	0.010	"								
Propane	ND	0.010	"								
<i>Surrogate: Ethene</i>	<i>0.0263</i>		<i>"</i>	<i>0.0364</i>		<i>72.3</i>	<i>70-130</i>				

**LCS (1909323-BS1)**

Prepared: 09/27/19 Analyzed: 10/02/19

Methane	0.046	0.010	mg/L	0.0428		108	70-130				
Ethane	0.089	0.010	"	0.0798		111	70-130				
Propane	0.13	0.010	"	0.139		91.2	70-130				
<i>Surrogate: Ethene</i>	<i>0.0905</i>		<i>"</i>	<i>0.0728</i>		<i>124</i>	<i>70-130</i>				

**Duplicate (1909323-DUP1)**

Source: 1909276-03

Prepared: 09/27/19 Analyzed: 10/02/19

Methane	0.084	0.010	mg/L		0.080			4.49	30		
Ethane	0.024	0.010	"		0.023			5.54	30		
Propane	0.0091	0.010	"		0.0089			2.22	30		
<i>Surrogate: Ethene</i>	<i>0.0598</i>		<i>"</i>	<i>0.0364</i>		<i>164</i>	<i>70-130</i>				<i>S-02</i>

**Matrix Spike (1909323-MS1)**

Source: 1909276-03

Prepared: 09/27/19 Analyzed: 10/02/19

Methane	0.14	0.010	mg/L	0.0428	0.080	139	70-130				QM-07
Ethane	0.13	0.010	"	0.0798	0.023	133	70-130				QM-07
Propane	0.15	0.010	"	0.139	0.0089	105	70-130				
<i>Surrogate: Ethene</i>	<i>0.117</i>		<i>"</i>	<i>0.0728</i>		<i>160</i>	<i>70-130</i>				<i>QM-07</i>

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Project: F-26 Bradenhead Sampling

Project Number: [none]  
Project Manager: Jeremy Pike

**Reported:**  
02/05/20 11:39

**Total Metals by EPA Method 200.8 - Quality Control**  
**Summit Scientific**

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

**Batch 1909305 - EPA 200.8**

**Blank (1909305-BLK1)**

Prepared & Analyzed: 09/24/19

Calcium	ND	0.0500	mg/L							
Magnesium	ND	0.0500	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0500	"							

**LCS (1909305-BS1)**

Prepared & Analyzed: 09/24/19

Calcium	4.48	0.0500	mg/L	5.00		89.5	85-115			
Magnesium	4.72	0.0500	"	5.00		94.4	85-115			
Potassium	4.50	0.0500	"	5.00		90.0	85-115			
Sodium	4.47	0.0500	"	5.00		89.3	85-115			

**Duplicate (1909305-DUP1)**

Source: 1909252-01

Prepared & Analyzed: 09/24/19

Calcium	150	0.0500	mg/L		145			3.07	20	
Magnesium	39.6	0.0500	"		38.0			4.20	20	
Potassium	2.16	0.0500	"		2.20			1.74	20	
Sodium	453	0.0500	"		433			4.55	20	

**Matrix Spike (1909305-MS1)**

Source: 1909252-01

Prepared & Analyzed: 09/24/19

Calcium	143	0.0500	mg/L	5.00	145	NR	70-130			QM-02
Magnesium	40.9	0.0500	"	5.00	38.0	57.8	70-130			QM-02
Potassium	5.95	0.0500	"	5.00	2.20	74.9	70-130			
Sodium	433	0.0500	"	5.00	433	NR	70-130			QM-02

**Matrix Spike Dup (1909305-MSD1)**

Source: 1909252-01

Prepared & Analyzed: 09/24/19

Calcium	164	0.0500	mg/L	5.00	145	379	70-130	14.0	25	QM-02
Magnesium	41.5	0.0500	"	5.00	38.0	70.4	70-130	1.52	25	
Potassium	5.97	0.0500	"	5.00	2.20	75.4	70-130	0.383	25	
Sodium	434	0.0500	"	5.00	433	18.2	70-130	0.273	25	QM-02

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**Anions by EPA Method 300.0 - Quality Control**  
**Summit Scientific**

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

**Batch 1909361 - General Preparation**

**Blank (1909361-BLK1)**

Prepared & Analyzed: 09/26/19

Chloride	ND	0.0600	mg/L							
Sulfate	ND	0.300	"							

**LCS (1909361-BS1)**

Prepared & Analyzed: 09/26/19

Chloride	3.18	0.0600	mg/L	3.00	106	90-110				
Sulfate	16.1	0.300	"	15.0	108	90-110				

**Duplicate (1909361-DUP1)**

Source: 1909339-01

Prepared & Analyzed: 09/26/19

Chloride	ND	0.0600	mg/L		613				20	QM-02
Sulfate	ND	0.300	"		2190				20	QM-02

**Matrix Spike (1909361-MS1)**

Source: 1909339-01

Prepared & Analyzed: 09/26/19

Chloride	ND	0.0600	mg/L	3.00	613	NR	80-120			QM-02
Sulfate	ND	0.300	"	15.0	2190	NR	80-120			QM-02

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Project Number: [none]  
Project Manager: Jeremy Pike

**Reported:**  
02/05/20 11:39

**Alkalinity by SM2320 - Quality Control**  
**Summit Scientific**

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

**Batch 1909392 - General Preparation**

**Blank (1909392-BLK1)**

Prepared & Analyzed: 09/27/19

Total Alkalinity	ND	10.0	mg/L as CaCO3						
Carbonate	ND	10.0	"						
Bicarbonate	ND	10.0	"						
Hydroxide Alkalinity	ND	10.0	"						

**LCS (1909392-BS1)**

Prepared & Analyzed: 09/27/19

Total Alkalinity	110	10.0	mg/L as CaCO3	100		110	80-120		
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**Duplicate (1909392-DUP1)**

Source: 1909272-01

Prepared & Analyzed: 09/27/19

Total Alkalinity	1730	10.0	mg/L as CaCO3		1760			1.72	20
Carbonate	ND	10.0	"		ND				20
Bicarbonate	1730	10.0	"		1760			1.72	20
Hydroxide Alkalinity	ND	10.0	"		ND				20

**Matrix Spike (1909392-MS1)**

Source: 1909272-01

Prepared & Analyzed: 09/27/19

Total Alkalinity	1840	10.0	mg/L as CaCO3	100	1760	80.0	80-120		
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**Matrix Spike Dup (1909392-MSD1)**

Source: 1909272-01

Prepared & Analyzed: 09/27/19

Total Alkalinity	1840	10.0	mg/L as CaCO3	100	1760	80.0	80-120	0.00	20
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Project: F-26 Bradenhead Sampling

Project Number: [none]  
 Project Manager: Jeremy Pike

**Reported:**  
 02/05/20 11:39

**Total Dissolved Solids by SM2540C - Quality Control**

**Summit Scientific**

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

**Batch 1909328 - General Preparation**

**Blank (1909328-BLK1)**

Prepared & Analyzed: 09/25/19

Total Dissolved Solids      ND      10.0      mg/L

**Duplicate (1909328-DUP1)**

Source: 1909272-01

Prepared & Analyzed: 09/25/19

Total Dissolved Solids      2440      10.0      mg/L      2420      0.576      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: F-26 Bradenhead Sampling

Project Number: [none]  
Project Manager: Jeremy Pike

**Reported:**  
02/05/20 11:39

### 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.
- QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
- 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