

LEGEND

 Site Location



Figure 1
Location Site Map
March 15, 2020 LBK

**Pronghorn T-7
Facility ID: 431029
SESE Sec 7, T5N, R61W, 6th PM
Weld County, Colorado**



IMAGE COURTESY OF GOOGLE EARTH 2013

LEGEND

- SOIL SAMPLE
- SCRAPED AREA

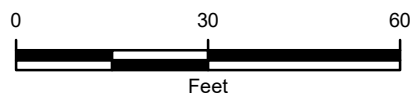


FIGURE 1
SOIL SAMPLE LOCATION MAP
PRONGHORN T-7
SESE SEC 7-T5N-R61W
WELD COUNTY, COLORADO
BONANZA CREEK ENERGY, INC.



**TABLE 1
SOIL ANALYTICAL RESULTS**

**PRONGHORN T-7
WELD COUNTY, COLORADO
BONANZA CREEK ENERGY, INC.**

Sample ID	Date Sampled	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	TPH (mg/kg)	pH	EC (mmhos/cm)	SAR
SS01	3/27/2020	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50.50	8.73	0.287	0.327
SS02	3/27/2020	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50.50	8.69	0.296	0.403
SS03	3/27/2020	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50.50	8.65	0.566	0.589
SS04	3/27/2020	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50.50	8.17	0.562	0.622
SS05	3/27/2020	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50.50	8.84	0.626	0.959
SS06	3/27/2020	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50.50	8.80	0.693	0.752
SS07	3/27/2020	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50.50	8.38	3.25	1.79
SS08	3/27/2020	<0.0020	<0.0050	<0.0050	<0.010	<0.50	<50	<50.50	9.19	0.573	0.137
COGCC Table 910-1 Concentration Level		0.17	85	100	175	--	--	500	6-9	4	12

Notes:

COGCC - Colorado Oil and Gas Conservation Commission

DRO - diesel range organics analyzed by EPA Method 8015

EC - electrical conductivity analyzed by EPA Method 120.1

EPA - United States Environmental Protection Agency

GRO - gasoline range organics analyzed by EPA Method 8260B

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter

SAR - sodium adsorption ratio determined by calculation

TPH - total petroleum hydrocarbons, sum of DRO and GRO

-- - not applicable/not analyzed

< - indicates result is less than the stated laboratory method reporting limit

BOLD - indicates result exceeds applicable COGCC Table 910-1 concentration level

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B



Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 03, 2020

Jeremy Pike

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: Pronghorn T-7

Work Order #2003357

Enclosed are the results of analyses for samples received by Summit Scientific on 03/30/20 13:58. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Muri Premier", is displayed on a light purple rectangular background.

Muri Premier For Paul Shrewsbury
President



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

Project: Pronghorn T-7
Project Number: 098720001
Project Manager: Jeremy Pike

Reported:
04/03/20 15:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	2003357-01	Soil	03/27/20 13:30	03/30/20 13:58
SS02	2003357-02	Soil	03/27/20 13:32	03/30/20 13:58
SS03	2003357-03	Soil	03/27/20 13:34	03/30/20 13:58
SS04	2003357-04	Soil	03/27/20 13:36	03/30/20 13:58
SS05	2003357-05	Soil	03/27/20 13:38	03/30/20 13:58
SS06	2003357-06	Soil	03/27/20 13:40	03/30/20 13:58
SS07	2003357-07	Soil	03/27/20 13:42	03/30/20 13:58
SS08	2003357-08	Soil	03/27/20 13:44	03/30/20 13:58

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

2003357

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 1

Client: LT Environmental

Project Manager: Jeremy Pike

Address: 4600 W 60th Ave

E-Mail: J.Pike@Lteu.com

C.Roy@Lteu.com

City/State/Zip: Arvada, CO 80003

Phone: 303-433-9788

Project Name: Prong Horn T-7

Sampler Name: Drew Bullinger

Project Number: 098720001

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions	
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	GBTEX	TPH-DRO	EC	pH	SAR			
1	SS01	3/27/20	13:30	1			X			X				X	X	X	X	X		
2	SS02	3/27/20	13:32	1			X			X				X	X	X	X	X		
3	SS03	3/27/20	13:34	1			X			X				X	X	X	X	X		
4	SS04	3/27/20	13:36	1			X			X				X	X	X	X	X		
5	SS05	3/27/20	13:38	1			X			X				X	X	X	X	X		
6	SS06	3/27/20	13:40	1			X			X				X	X	X	X	X		
7	SS07	3/27/20	13:42	1			X			X				X	X	X	X	X		
8	SS08	3/27/20	13:44	1			X			X				X	X	X	X	X		
9	Bgo1	3/27/20	13:50	1			X			X						X	X	X		Hold for results
10																				

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time	(Check)	Notes:
Drew Bullinger	3/30/20 13:58		3-30-2020 1358	Same Day	72 hours	
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours	Standard <input checked="" type="checkbox"/>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	48 hours		
				Sample Integrity:		
				Temperature Upon Receipt:	120°	
				Samples Intact:	<input checked="" type="radio"/> Yes <input type="radio"/> No	

Sample Receipt Checklist

S2 Work Order 2003357Client: LIE Client Project ID: Pronghorn T-7Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____Matrix (check all that apply): Air ☒ Soil/Solid Water Other: _____
(Describe)Temp (°C) 12.0°

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"/>	on ice
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 samples with holding times due within 48 hours sample 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 type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Note the type of preservative in the Comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , 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.

AM
Custodian Printed Name or Initials[Signature]
Signature of Custodian3-30-2020
Date/Time



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

Project: Pronghorn T-7
Project Number: 098720001
Project Manager: Jeremy Pike

Reported:
04/03/20 15:02

SS01
2003357-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/27/20 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2003372	03/31/20	04/02/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/27/20 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		92.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		71.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.9 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/27/20 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2003373	03/31/20	04/01/20	EPA 8015M	

Date Sampled: **03/27/20 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		103 %	30-150		"	"	"	"	

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

Date Sampled: **03/27/20 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	6230	11.7	mg/kg dry	1	2003381	03/31/20	03/31/20	EPA 6020B	
Magnesium	698	5.87	"	"	"	"	"	"	

Summit Scientific

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4600 West 60th Avenue
Arvada CO, 80003

Project: Pronghorn T-7
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Reported:
04/03/20 15:02

SS01
2003357-01 (Soil)

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

Sodium	102	5.87	mg/kg dry	1	2003381	03/31/20	03/31/20	EPA 6020B
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Calculated Analysis

Date Sampled: **03/27/20 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.327	0.100	units	1	2004011	04/01/20	04/02/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/27/20 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.2		%	1	2004001	04/01/20	04/01/20	Calculation	
pH	8.73		pH Units	"	2004016	04/02/20	04/02/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **03/27/20 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.287	0.0100	mmhos/cm	1	2004017	04/02/20	04/02/20	EPA 120.1	

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Project Manager: Jeremy Pike

Reported:
04/03/20 15:02

SS02
2003357-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/27/20 13:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	2003372	03/31/20	04/02/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/27/20 13:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		103 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		72.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.4 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/27/20 13:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	2003373	03/31/20	04/01/20	EPA 8015M	

Date Sampled: **03/27/20 13:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		88.5 %	30-150		"	"	"	"	

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

Date Sampled: **03/27/20 13:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	4940	11.6	mg/kg dry	1	2003381	03/31/20	03/31/20	EPA 6020B	
Magnesium	557	5.80	"	"	"	"	"	"	
Sodium	112	5.80	"	"	"	"	"	"	

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Reported:
04/03/20 15:02

SS02
2003357-02 (Soil)

Summit Scientific

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

Calculated Analysis

Date Sampled: **03/27/20 13:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.403	0.100	units	1	2004011	04/01/20	04/02/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/27/20 13:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.3		%	1	2004001	04/01/20	04/01/20	Calculation	
pH	8.69		pH Units	"	2004016	04/02/20	04/02/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **03/27/20 13:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.296	0.0100	mmhos/cm	1	2004017	04/02/20	04/02/20	EPA 120.1	

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LT Environmental, Inc.
4600 West 60th Avenue
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Project: Pronghorn T-7
Project Number: 098720001
Project Manager: Jeremy Pike

Reported:
04/03/20 15:02

SS03
2003357-03 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/27/20 13:34**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	2003372	03/31/20	04/02/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/27/20 13:34**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		72.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.0 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/27/20 13:34**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	2003373	03/31/20	04/01/20	EPA 8015M	

Date Sampled: **03/27/20 13:34**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		89.8 %	30-150		"	"	"	"	

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

Date Sampled: **03/27/20 13:34**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	2070	11.3	mg/kg dry	1	2003381	03/31/20	03/31/20	EPA 6020B	
Magnesium	500	5.64	"	"	"	"	"	"	
Sodium	115	5.64	"	"	"	"	"	"	

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04/03/20 15:02

SS03
2003357-03 (Soil)

Summit Scientific

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

Calculated Analysis

Date Sampled: **03/27/20 13:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.589	0.100	units	1	2004011	04/01/20	04/02/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/27/20 13:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.7		%	1	2004001	04/01/20	04/01/20	Calculation	
pH	8.65		pH Units	"	2004016	04/02/20	04/02/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **03/27/20 13:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.566	0.0100	mmhos/cm	1	2004017	04/02/20	04/02/20	EPA 120.1	

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

Project: Pronghorn T-7
Project Number: 098720001
Project Manager: Jeremy Pike

Reported:
04/03/20 15:02

SS04
2003357-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/27/20 13:36**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	2003372	03/31/20	04/02/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/27/20 13:36**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		102 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		73.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		78.5 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/27/20 13:36**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	2003373	03/31/20	04/01/20	EPA 8015M	

Date Sampled: **03/27/20 13:36**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		96.8 %	30-150		"	"	"	"	

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

Date Sampled: **03/27/20 13:36**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	966	11.4	mg/kg dry	1	2003381	03/31/20	03/31/20	EPA 6020B	
Magnesium	437	5.70	"	"	"	"	"	"	
Sodium	92.8	5.70	"	"	"	"	"	"	

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4600 West 60th Avenue
Arvada CO, 80003

Project: Pronghorn T-7
Project Number: 098720001
Project Manager: Jeremy Pike

Reported:
04/03/20 15:02

SS04
2003357-04 (Soil)

Summit Scientific

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

Calculated Analysis

Date Sampled: **03/27/20 13:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.622	0.100	units	1	2004011	04/01/20	04/02/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/27/20 13:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.7		%	1	2004001	04/01/20	04/01/20	Calculation	
pH	8.17		pH Units	"	2004016	04/02/20	04/02/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **03/27/20 13:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.562	0.0100	mmhos/cm	1	2004017	04/02/20	04/02/20	EPA 120.1	

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

Project: Pronghorn T-7
Project Number: 098720001
Project Manager: Jeremy Pike

Reported:
04/03/20 15:02

SS05
2003357-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/27/20 13:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2003372	03/31/20	04/02/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/27/20 13:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		111 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		73.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.9 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/27/20 13:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2003373	03/31/20	04/01/20	EPA 8015M	

Date Sampled: **03/27/20 13:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		90.2 %	30-150		"	"	"	"	

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

Date Sampled: **03/27/20 13:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2690	11.6	mg/kg dry	1	2003381	03/31/20	03/31/20	EPA 6020B	
Magnesium	469	5.81	"	"	"	"	"	"	
Sodium	205	5.81	"	"	"	"	"	"	

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Project: Pronghorn T-7
Project Number: 098720001
Project Manager: Jeremy Pike

Reported:
04/03/20 15:02

SS05
2003357-05 (Soil)

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

Calculated Analysis

Date Sampled: **03/27/20 13:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.959	0.100	units	1	2004011	04/01/20	04/02/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/27/20 13:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.1		%	1	2004001	04/01/20	04/01/20	Calculation	
pH	8.84		pH Units	"	2004016	04/02/20	04/02/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **03/27/20 13:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.626	0.0100	mmhos/cm	1	2004017	04/02/20	04/02/20	EPA 120.1	

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Project: Pronghorn T-7
Project Number: 098720001
Project Manager: Jeremy Pike

Reported:
04/03/20 15:02

SS06
2003357-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/27/20 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	2003372	03/31/20	04/02/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/27/20 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		107 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		73.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.0 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/27/20 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	2003373	03/31/20	04/01/20	EPA 8015M	

Date Sampled: **03/27/20 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		97.7 %	30-150		"	"	"	"	

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

Date Sampled: **03/27/20 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	13.9	11.0	mg/kg dry	1	2003381	03/31/20	03/31/20	EPA 6020B	
Magnesium	ND	5.52	"	"	"	"	"	"	
Sodium	11.7	5.52	"	"	"	"	"	"	

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Project: Pronghorn T-7
Project Number: 098720001
Project Manager: Jeremy Pike

Reported:
04/03/20 15:02

SS06
2003357-06 (Soil)

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

Calculated Analysis

Date Sampled: **03/27/20 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.752	0.100	units	1	2004011	04/01/20	04/02/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/27/20 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.5		%	1	2004001	04/01/20	04/01/20	Calculation	
pH	8.80		pH Units	"	2004016	04/02/20	04/02/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **03/27/20 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.693	0.0100	mmhos/cm	1	2004017	04/02/20	04/02/20	EPA 120.1	

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4600 West 60th Avenue
Arvada CO, 80003

Project: Pronghorn T-7
Project Number: 098720001
Project Manager: Jeremy Pike

Reported:
04/03/20 15:02

SS07
2003357-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/27/20 13:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	2003372	03/31/20	04/02/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/27/20 13:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		116 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		74.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.6 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/27/20 13:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	2003373	03/31/20	04/01/20	EPA 8015M	

Date Sampled: **03/27/20 13:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		109 %	30-150		"	"	"	"	

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

Date Sampled: **03/27/20 13:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	ND	11.4	mg/kg dry	1	2003381	03/31/20	03/31/20	EPA 6020B	
Magnesium	ND	5.72	"	"	"	"	"	"	
Sodium	12.9	5.72	"	"	"	"	"	"	

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Project: Pronghorn T-7
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Project Manager: Jeremy Pike

Reported:
04/03/20 15:02

SS07
2003357-07 (Soil)

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

Calculated Analysis

Date Sampled: **03/27/20 13:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.79	0.100	units	1	2004011	04/01/20	04/02/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/27/20 13:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.4		%	1	2004001	04/01/20	04/01/20	Calculation	
pH	8.38		pH Units	"	2004016	04/02/20	04/02/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **03/27/20 13:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.25	0.0100	mmhos/cm	1	2004017	04/02/20	04/02/20	EPA 120.1	

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Project: Pronghorn T-7
Project Number: 098720001
Project Manager: Jeremy Pike

Reported:
04/03/20 15:02

SS08
2003357-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/27/20 13:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	2003372	03/31/20	04/02/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/27/20 13:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		101 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		72.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.9 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/27/20 13:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	2003373	03/31/20	04/01/20	EPA 8015M	

Date Sampled: **03/27/20 13:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		115 %	30-150		"	"	"	"	

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

Date Sampled: **03/27/20 13:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	20.7	11.1	mg/kg dry	1	2003381	03/31/20	03/31/20	EPA 6020B	
Magnesium	ND	5.56	"	"	"	"	"	"	
Sodium	ND	5.56	"	"	"	"	"	"	

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Project: Pronghorn T-7
Project Number: 098720001
Project Manager: Jeremy Pike

Reported:
04/03/20 15:02

SS08
2003357-08 (Soil)

Summit Scientific

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

Calculated Analysis

Date Sampled: **03/27/20 13:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.137	0.100	units	1	2004011	04/01/20	04/02/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/27/20 13:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.0		%	1	2004001	04/01/20	04/01/20	Calculation	
pH	9.19		pH Units	"	2004016	04/02/20	04/02/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **03/27/20 13:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.573	0.0100	mmhos/cm	1	2004017	04/02/20	04/02/20	EPA 120.1	

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Project: Pronghorn T-7
Project Number: 098720001
Project Manager: Jeremy Pike

Reported:
04/03/20 15:02

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 2003372 - EPA 5030 Soil MS

Blank (2003372-BLK1)

Prepared: 03/31/20 Analyzed: 04/02/20

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	0.0401		"	0.0400		100	23-173			
Surrogate: Toluene-d8	0.0397		"	0.0400		99.3	20-170			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		99.9	21-167			

LCS (2003372-BS1)

Prepared: 03/31/20 Analyzed: 04/02/20

Benzene	0.0935	0.0020	mg/kg	0.100		93.5	70-130			
Toluene	0.101	0.0050	"	0.100		101	70-130			
Ethylbenzene	0.0951	0.0050	"	0.100		95.1	70-130			
m,p-Xylene	0.190	0.010	"	0.200		95.0	70-130			
o-Xylene	0.0907	0.0050	"	0.100		90.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0420		"	0.0400		105	23-173			
Surrogate: Toluene-d8	0.0417		"	0.0400		104	20-170			
Surrogate: 4-Bromofluorobenzene	0.0387		"	0.0400		96.8	21-167			

Matrix Spike (2003372-MS1)

Source: 2003355-01

Prepared: 03/31/20 Analyzed: 04/02/20

Benzene	0.0943	0.0020	mg/kg	0.100	0.00327	91.0	70-130			
Toluene	0.0987	0.0050	"	0.100	0.00540	93.3	70-130			
Ethylbenzene	0.0992	0.0050	"	0.100	0.00330	95.9	70-130			
m,p-Xylene	0.202	0.010	"	0.200	0.0104	95.6	70-130			
o-Xylene	0.0970	0.0050	"	0.100	0.00615	90.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0408		"	0.0400		102	23-173			
Surrogate: Toluene-d8	0.0406		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0411		"	0.0400		103	21-167			

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Project: Pronghorn T-7
Project Number: 098720001
Project Manager: Jeremy Pike

Reported:
04/03/20 15:02

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 2003372 - EPA 5030 Soil MS

Matrix Spike Dup (2003372-MSD1)		Source: 2003355-01			Prepared: 03/31/20 Analyzed: 04/02/20					
Benzene	0.0962	0.0020	mg/kg	0.100	0.00327	93.0	70-130	2.08	30	
Toluene	0.103	0.0050	"	0.100	0.00540	97.3	70-130	3.96	30	
Ethylbenzene	0.0990	0.0050	"	0.100	0.00330	95.7	70-130	0.212	30	
m,p-Xylene	0.199	0.010	"	0.200	0.0104	94.5	70-130	1.06	30	
o-Xylene	0.0959	0.0050	"	0.100	0.00615	89.7	70-130	1.21	30	
Surrogate: 1,2-Dichloroethane-d4	0.0422		"	0.0400		106	23-173			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.6	20-170			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	21-167			

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Project: Pronghorn T-7
Project Number: 098720001
Project Manager: Jeremy Pike

Reported:
04/03/20 15:02

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 2003373 - EPA 3550A

Blank (2003373-BLK1)

Prepared & Analyzed: 03/31/20

C10-C28 (DRO) ND 50 mg/kg

LCS (2003373-BS1)

Prepared & Analyzed: 03/31/20

C10-C28 (DRO) 507 50 mg/kg 500 101 70-130

Matrix Spike (2003373-MS1)

Source: 2003355-01

Prepared: 03/31/20 Analyzed: 04/01/20

C10-C28 (DRO) 444 50 mg/kg 500 22.8 84.2 70-130

Matrix Spike Dup (2003373-MSD1)

Source: 2003355-01

Prepared: 03/31/20 Analyzed: 04/01/20

C10-C28 (DRO) 468 50 mg/kg 500 22.8 89.0 70-130 5.20 20

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Arvada CO, 80003

Project: Pronghorn T-7
Project Number: 098720001
Project Manager: Jeremy Pike

Reported:
04/03/20 15:02

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

Summit Scientific

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

Batch 2003381 - General Preparation

Blank (2003381-BLK1)

Prepared & Analyzed: 03/31/20

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

LCS (2003381-BS1)

Prepared & Analyzed: 03/31/20

Calcium	536	10.0	mg/kg wet	500	107	70-130
Magnesium	584	5.00	"	500	117	70-130
Sodium	536	5.00	"	500	107	70-130

Duplicate (2003381-DUP1)

Source: 2003359-05

Prepared & Analyzed: 03/31/20

Calcium	5340	12.0	mg/kg dry	5950	10.8	20
Magnesium	611	6.01	"	652	6.56	20
Sodium	544	6.01	"	592	8.30	20

Matrix Spike (2003381-MS1)

Source: 2003359-05

Prepared & Analyzed: 03/31/20

Calcium	6550	12.0	mg/kg dry	601	5950	99.8	70-130
Magnesium	1130	6.01	"	601	652	79.8	70-130
Sodium	1150	6.01	"	601	592	93.4	70-130

Matrix Spike Dup (2003381-MSD1)

Source: 2003359-05

Prepared & Analyzed: 03/31/20

Calcium	6600	12.0	mg/kg dry	601	5950	108	70-130	0.730	25
Magnesium	1190	6.01	"	601	652	89.6	70-130	5.09	25
Sodium	1190	6.01	"	601	592	99.2	70-130	2.98	25

Summit Scientific

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

Project: Pronghorn T-7

Project Number: 098720001
Project Manager: Jeremy Pike

Reported:
04/03/20 15:02

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch 2004001 - General Preparation

Duplicate (2004001-DUP1)

Source: 2003358-01

Prepared & Analyzed: 04/01/20

% Solids	84.0		%		83.8			0.238	20	
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Batch 2004016 - General Preparation

LCS (2004016-BS1)

Prepared & Analyzed: 04/02/20

pH	9.21		pH Units	9.18	100	95-105				
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Duplicate (2004016-DUP1)

Source: 2003357-01

Prepared & Analyzed: 04/02/20

pH	8.76		pH Units		8.73			0.343	20	
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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: Pronghorn T-7
Project Number: 098720001
Project Manager: Jeremy Pike

Reported:
04/03/20 15:02

Specific Conductance by EPA Method 120.1 - Quality Control
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Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

Batch 2004017 - General Preparation

Blank (2004017-BLK1)

Prepared & Analyzed: 04/02/20

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (2004017-BS1)

Prepared & Analyzed: 04/02/20

Specific Conductance (EC) 0.744 0.0100 mmhos/cm 0.750 99.3 90-110

Duplicate (2004017-DUP1)

Source: 2003357-01

Prepared & Analyzed: 04/02/20

Specific Conductance (EC) 0.288 0.0100 mmhos/cm 0.287 0.226 20

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Arvada CO, 80003

Project: Pronghorn T-7

Project Number: 098720001
Project Manager: Jeremy Pike

Reported:
04/03/20 15:02

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