

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

May 01, 2015

Chris Roy
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: NEP - Two E Ranches #1

Enclosed are the results of analyses for samples received by Summit Scientific on 04/30/15 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury
President



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

Project: NEP - Two E Ranches #1

Project Number: 0083-15021
Project Manager: Chris Roy

Reported:
05/01/15 06:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@6'	1504294-01	Soil	04/30/15 11:50	04/30/15 16:45
SS02@2'	1504294-02	Soil	04/30/15 11:40	04/30/15 16:45

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: NEP - Two E Ranches #1

Project Number: 0083-15021
Project Manager: Chris Roy

Reported:
05/01/15 06:30

Summit Scientific 1504294

S₂

741 Corporate Circle, Suite J&K ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933

Page 1 of 1

Client: LT Environmental, Inc. Project Manager: Chris Roy
Address: 4600 West 60th Ave E-Mail: croy@ltenv.com + Note
City/State/Zip: Arvada, CO 80003
Phone: 303-433-9788 Fax: 303-433-1432 Project Name: Two E Ranches #1
Sampler Name: DHoler Project Number: 008315021

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested					Special Instructions	
					HCl	HNO3	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	BTEX	CRD DRO	Depth	EC pH		SAR
1	SS0206	4/30/15	1650	1						X			X	X	X			
2	SS0202	4/30/15	1140	1						X			X	X	X	X		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

DH

Relinquished by: <u>DH</u>	Date/Time: <u>4/30/15 1600</u>	Received by: <u>NR</u>	Date/Time: <u>4/30/15 1645</u>	Turn Around Time (Check)	Notes:
Relinquished by: <u>NR</u>	Date/Time: <u>4/30/15 1740</u>	Received by:	Date/Time:	Same Day <input checked="" type="checkbox"/> 72 hours —	<u>on ice</u>
				24 hours — Standard —	
				48 hours —	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:	
				Temperature Upon Receipt: <u>4.4°C</u>	
				Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	

www.s2scientific.com



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

Project: NEP - Two E Ranches #1

Project Number: 0083-15021
Project Manager: Chris Roy

Reported:
05/01/15 06:30

Sample Receipt Checklist

S2 Work Order: 1504294

Client: LTE

Client Project ID: Two E Ranches #1

Shipped Via: pu
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: _____

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

Cooler ID					
Temp (°C)	4.4				

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature just above 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
NOTE: If samples are delivered the same day of sampling, this requirement is waived provided that there is evidence that cooling has begun.				
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, etc.				
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Ben Shrewsbury
Custodian Printed Name

[Signature]
Signature or Initials of Custodian

4/30/15 1950
Date/Time

[Signature]



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

Project: NEP - Two E Ranches #1

Project Number: 0083-15021
Project Manager: Chris Roy

Reported:
05/01/15 06:30

SS01@6'
1504294-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/30/15 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1504317	04/30/15	04/30/15	8015M	

Date Sampled: **04/30/15 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		107 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/30/15 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1504316	04/30/15	04/30/15	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **04/30/15 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.3 %	21-167		"	"	"	"	

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: NEP - Two E Ranches #1

Project Number: 0083-15021
Project Manager: Chris Roy

Reported:
05/01/15 06:30

SS02@2'
1504294-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/30/15 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1504317	04/30/15	04/30/15	8015M	

Date Sampled: **04/30/15 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		106 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/30/15 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1504316	04/30/15	04/30/15	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **04/30/15 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		111 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

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

Date Sampled: **04/30/15 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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: NEP - Two E Ranches #1

Project Number: 0083-15021
Project Manager: Chris Roy

Reported:
05/01/15 06:30

SS02@2'
1504294-02 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2530	11.2	mg/kg dry	1	1504287	04/30/15	04/30/15	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	511	5.61	"	"	"	"	"	"	
Sodium	99.2	5.61	"	"	"	"	"	"	

Date Sampled: 04/30/15 11:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.470		units	"	1504310	04/30/15	05/01/15	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 04/30/15 11:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.421	0.0100	mmhos/cm	1	1504291	04/29/15	04/30/15	SM 2510B	

Date Sampled: 04/30/15 11:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.59	0.100	pH Units	"	1504288	04/29/15	04/30/15	EPA 9045	

Date Sampled: 04/30/15 11:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.1		%	"	1504312	04/30/15	04/30/15	% calculation	

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: NEP - Two E Ranches #1

Project Number: 0083-15021
Project Manager: Chris Roy

Reported:
05/01/15 06:30

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 1504317 - EPA 3550A

Blank (1504317-BLK1)

Prepared & Analyzed: 04/30/15

C10-C28 (DRO)	ND	50	mg/kg								
<i>Surrogate: o-Terphenyl</i>	12.8		"	12.2		105	30-150				

LCS (1504317-BS1)

Prepared & Analyzed: 04/30/15

C10-C28 (DRO)	456	50	mg/kg	501		90.9	73-134				
<i>Surrogate: o-Terphenyl</i>	13.5		"	12.2		111	30-150				

Matrix Spike (1504317-MS1)

Source: 1504294-01

Prepared & Analyzed: 04/30/15

C10-C28 (DRO)	441	50	mg/kg	490	ND	90.0	50-148				
<i>Surrogate: o-Terphenyl</i>	12.8		"	11.9		107	30-150				

Matrix Spike Dup (1504317-MSD1)

Source: 1504294-01

Prepared & Analyzed: 04/30/15

C10-C28 (DRO)	456	50	mg/kg	499	ND	91.4	50-148	3.32		13	
<i>Surrogate: o-Terphenyl</i>	13.3		"	12.2		109	30-150				

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: NEP - Two E Ranches #1

Project Number: 0083-15021
Project Manager: Chris Roy

Reported:
05/01/15 06:30

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch 1504316 - EPA 5030 Soil MS

Blank (1504316-BLK1)

Prepared & Analyzed: 04/30/15

Naphthalene	ND	0.010	mg/kg							
Benzene	ND	0.0020	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0436</i>		<i>"</i>	<i>0.0396</i>		<i>110</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0391</i>		<i>"</i>	<i>0.0400</i>		<i>97.7</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0404</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>21-167</i>			

LCS (1504316-BS1)

Prepared & Analyzed: 04/30/15

Naphthalene	ND	0.010	mg/kg				66-138			
Benzene	0.0811	0.0020	"	0.100		81.1	58-130			
Toluene	0.0867	0.0050	"	0.100		86.7	61-134			
Ethylbenzene	0.0984	0.0050	"	0.0992		99.2	74-139			
m,p-Xylene	0.201	0.010	"	0.200		100	73-137			
o-Xylene	0.102	0.0050	"	0.0984		103	73-141			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0419</i>		<i>"</i>	<i>0.0396</i>		<i>106</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0386</i>		<i>"</i>	<i>0.0400</i>		<i>96.6</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0385</i>		<i>"</i>	<i>0.0400</i>		<i>96.2</i>	<i>21-167</i>			

Matrix Spike (1504316-MS1)

Source: 1504294-01

Prepared & Analyzed: 04/30/15

Naphthalene	ND	0.010	mg/kg		ND		10-158			
Benzene	0.0777	0.0020	"	0.0975	ND	79.7	30-131			
Toluene	0.0853	0.0050	"	0.0975	ND	87.5	30-134			
Ethylbenzene	0.0965	0.0050	"	0.0967	ND	99.9	22-153			
m,p-Xylene	0.198	0.010	"	0.195	ND	102	10-159			
o-Xylene	0.0985	0.0050	"	0.0959	ND	103	31-151			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0425</i>		<i>"</i>	<i>0.0386</i>		<i>110</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0369</i>		<i>"</i>	<i>0.0390</i>		<i>94.6</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0370</i>		<i>"</i>	<i>0.0390</i>		<i>95.0</i>	<i>21-167</i>			

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: NEP - Two E Ranches #1

Project Number: 0083-15021
Project Manager: Chris Roy

Reported:
05/01/15 06:30

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch 1504316 - EPA 5030 Soil MS

Matrix Spike Dup (1504316-MSD1)

Source: 1504294-01

Prepared & Analyzed: 04/30/15

Naphthalene	ND	0.010	mg/kg		ND		10-158		42	
Benzene	0.0775	0.0020	"	0.0943	ND	82.1	30-131	0.219	34	
Toluene	0.0842	0.0050	"	0.0943	ND	89.2	30-134	1.36	30	
Ethylbenzene	0.0948	0.0050	"	0.0936	ND	101	22-153	1.79	24	
m,p-Xylene	0.196	0.010	"	0.188	ND	104	10-159	0.876	68	
o-Xylene	0.0977	0.0050	"	0.0928	ND	105	31-151	0.738	38	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0414</i>		<i>"</i>	<i>0.0374</i>		<i>111</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0370</i>		<i>"</i>	<i>0.0377</i>		<i>98.1</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0368</i>		<i>"</i>	<i>0.0377</i>		<i>97.7</i>	<i>21-167</i>			

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: NEP - Two E Ranches #1

Project Number: 0083-15021
Project Manager: Chris Roy

Reported:
05/01/15 06:30

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

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

Batch 1504287 - General Preparation

Blank (1504287-BLK1)

Prepared: 04/29/15 Analyzed: 04/30/15

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

LCS (1504287-BS1)

Prepared: 04/29/15 Analyzed: 04/30/15

Calcium	517	10.0	mg/kg wet	500	103	82.9-118			
Magnesium	520	5.00	"	500	104	77.1-123			
Sodium	512	5.00	"	500	102	71-129			

Duplicate (1504287-DUP1)

Source: 1504247-01

Prepared: 04/29/15 Analyzed: 04/30/15

Calcium	595	12.4	mg/kg dry	775			26.3	200	
Magnesium	370	6.20	"	588			45.5	200	
Sodium	1260	6.20	"	1280			1.86	200	

Matrix Spike (1504287-MS1)

Source: 1504247-01

Prepared: 04/29/15 Analyzed: 04/30/15

Calcium	1300	11.2	mg/kg dry	561	775	92.8	75-125		
Magnesium	1090	5.61	"	561	588	89.3	75-125		
Sodium	1720	5.61	"	561	1280	78.1	75-125		

Matrix Spike Dup (1504287-MSD1)

Source: 1504247-01

Prepared: 04/29/15 Analyzed: 04/30/15

Calcium	1220	11.8	mg/kg dry	589	775	75.4	75-125	6.04	25
Magnesium	1040	5.89	"	589	588	77.2	75-125	4.29	25
Sodium	1790	5.89	"	589	1280	85.1	75-125	3.60	25

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: NEP - Two E Ranches #1

Project Number: 0083-15021
Project Manager: Chris Roy

Reported:
05/01/15 06:30

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

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

Batch 1504288 - General Preparation

LCS (1504288-BS1)				Prepared & Analyzed: 04/29/15							
pH	7.96	0.100	pH Units	8.00		99.5	95-105				
Duplicate (1504288-DUP1)				Source: 1504247-01		Prepared & Analyzed: 04/29/15					
pH	7.64	0.100	pH Units		7.35				3.87	20	

Batch 1504291 - General Preparation

Blank (1504291-BLK1)				Prepared & Analyzed: 04/29/15							
Specific Conductance (EC)	ND	0.0100	mmhos/cm								
LCS (1504291-BS1)				Prepared & Analyzed: 04/29/15							
Specific Conductance (EC)	481	0.0100	mmhos/cm	500		96.2	90-110				
Duplicate (1504291-DUP1)				Source: 1504273-01		Prepared & Analyzed: 04/29/15					
Specific Conductance (EC)	5.86	0.0100	mmhos/cm		5.31				9.76	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: NEP - Two E Ranches #1

Project Number: 0083-15021
Project Manager: Chris Roy

Reported:
05/01/15 06:30

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

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.