

Summit Scientific

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December 11, 2015

Chris Roy
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: Caster 3-36-11-9-59

Enclosed are the results of analyses for samples received by Summit Scientific on 12/10/15 16:00. 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: Caster 3-36-11-9-59

Project Number: 042915003
Project Manager: Chris Roy

Reported:
12/11/15 05:56

SS01@8"
1512086-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/10/15 14:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1512099	12/10/15	12/10/15	8015M	

Date Sampled: 12/10/15 14:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		110 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/10/15 14:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1512100	12/10/15	12/10/15	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 12/10/15 14:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		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 1512099 - EPA 3550A

Blank (1512099-BLK1)

Prepared & Analyzed: 12/10/15

C10-C28 (DRO)	ND	50	mg/kg								
<i>Surrogate: o-Terphenyl</i>	12.3		"	12.5		98.5	30-150				

LCS (1512099-BS1)

Prepared & Analyzed: 12/10/15

C10-C28 (DRO)	491	50	mg/kg	499		98.5	73-134				
<i>Surrogate: o-Terphenyl</i>	11.7		"	12.5		94.0	30-150				

Matrix Spike (1512099-MS1)

Source: 1512083-01

Prepared & Analyzed: 12/10/15

C10-C28 (DRO)	1940	50	mg/kg	485	3040	NR	50-148				QM-4X
<i>Surrogate: o-Terphenyl</i>	12.4		"	12.2		102	30-150				

Matrix Spike Dup (1512099-MSD1)

Source: 1512083-01

Prepared & Analyzed: 12/10/15

C10-C28 (DRO)	2960	50	mg/kg	484	3040	NR	50-148	41.8	13		QM-4X
<i>Surrogate: o-Terphenyl</i>	13.4		"	12.1		110	30-150				

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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 1512100 - EPA 5030 Soil MS

Blank (1512100-BLK1)

Prepared & Analyzed: 12/10/15

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0381</i>		<i>"</i>	<i>0.0400</i>		<i>95.3</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.4</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 (1512100-BS1)

Prepared & Analyzed: 12/10/15

Benzene	0.0762	0.0020	mg/kg	0.100		76.2	58-130			
Toluene	0.0805	0.0050	"	0.100		80.5	61-134			
Ethylbenzene	0.0972	0.0050	"	0.0992		98.0	74-139			
m,p-Xylene	0.188	0.010	"	0.200		94.4	73-137			
o-Xylene	0.0908	0.0050	"	0.0984		92.3	73-141			
Xylenes (total)	0.279	0.0050	"				30-150			
Gasoline Range Hydrocarbons	2.22	0.50	"				30-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0387</i>		<i>"</i>	<i>0.0400</i>		<i>96.8</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0385</i>		<i>"</i>	<i>0.0400</i>		<i>96.3</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0391</i>		<i>"</i>	<i>0.0400</i>		<i>97.7</i>	<i>21-167</i>			

Matrix Spike (1512100-MS1)

Source: 1512053-01

Prepared & Analyzed: 12/10/15

Benzene	0.0708	0.0020	mg/kg	0.0931	ND	76.1	30-131			
Toluene	0.0764	0.0050	"	0.0931	ND	82.0	30-134			
Ethylbenzene	0.0907	0.0050	"	0.0924	ND	98.2	22-153			
m,p-Xylene	0.173	0.010	"	0.186	ND	92.9	10-159			
o-Xylene	0.0846	0.0050	"	0.0916	ND	92.3	31-151			
Xylenes (total)	0.257	0.0050	"		ND		30-150			
Gasoline Range Hydrocarbons	2.04	0.50	"		ND		30-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0370</i>		<i>"</i>	<i>0.0372</i>		<i>99.4</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0358</i>		<i>"</i>	<i>0.0372</i>		<i>96.2</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0358</i>		<i>"</i>	<i>0.0372</i>		<i>96.2</i>	<i>21-167</i>			

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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 1512100 - EPA 5030 Soil MS

Matrix Spike Dup (1512100-MSD1)	Source: 1512053-01			Prepared & Analyzed: 12/10/15						
Benzene	0.0722	0.0020	mg/kg	0.0940	ND	76.8	30-131	1.92	34	
Toluene	0.0772	0.0050	"	0.0940	ND	82.1	30-134	1.05	30	
Ethylbenzene	0.0921	0.0050	"	0.0932	ND	98.8	22-153	1.52	24	
m,p-Xylene	0.175	0.010	"	0.188	ND	93.5	10-159	1.60	68	
o-Xylene	0.0845	0.0050	"	0.0925	ND	91.3	31-151	0.127	38	
Xylenes (total)	0.260	0.0050	"		ND		30-150	1.03	20	
Gasoline Range Hydrocarbons	2.04	0.50	"		ND		30-150	0.0803	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0375</i>		<i>"</i>	<i>0.0376</i>		<i>99.7</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0363</i>		<i>"</i>	<i>0.0376</i>		<i>96.5</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0370</i>		<i>"</i>	<i>0.0376</i>		<i>98.6</i>	<i>21-167</i>			

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Notes and Definitions

- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- 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

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