

Summit Scientific

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Spill #1944352
Doc # 1944363

June 15, 2009

John Cocroft
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: KMG - HSR-Reder 5-13

Enclosed are the results of analyses for samples received by Summit Scientific on 06/12/09 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury
Vice President / Laboratory Director



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

Project: KMG - HSR-Reder 5-13

Project Number: KMG 09500
Project Manager: John Cocroft

Reported:
06/15/09 08:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@0-6"	R906083-01	Soil	06/12/09 11:45	06/12/09 17:00
SS02@0-6"	R906083-02	Soil	06/12/09 11:48	06/12/09 17:00
SS03@0-6"	R906083-03	Soil	06/12/09 11:50	06/12/09 17:00

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Project: KMG - HSR-Reder 5-13

Project Number: KMG 09500
Project Manager: John Cocroft

Reported:
06/15/09 08:45

**SS01@0-6''
R906083-01 (Soil)**

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/12/09 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	9061212	06/12/09	06/13/09	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/12/09 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		97.6 %	77.7-123		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/12/09 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	9061210	06/12/09	06/13/09	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/12/09 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane- <i>d</i> 4		107 %	77.3-121		"	"	"	"	
Surrogate: Toluene- <i>d</i> 8		98.5 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.2 %	85.3-109		"	"	"	"	

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Project: KMG - HSR-Reder 5-13

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Reported:
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SS02@0-6''
R906083-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/12/09 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	9061212	06/12/09	06/13/09	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/12/09 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		101 %	77.7-123		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/12/09 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	9061210	06/12/09	06/13/09	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/12/09 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		98.5 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.0 %	85.3-109		"	"	"	"	

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Project: KMG - HSR-Reder 5-13

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Project Manager: John Cocroft

Reported:
06/15/09 08:45

SS03@0-6"
R906083-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/12/09 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	9061212	06/12/09	06/13/09	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/12/09 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		98.4 %	77.7-123		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/12/09 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	9061210	06/12/09	06/13/09	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/12/09 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		99.0 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.0 %	85.3-109		"	"	"	"	

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Extractable Petroleum Hydrocarbons by 8015 - Quality Control

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

Batch 9061212 - EPA 3550A

Blank (9061212-BLK1)				Prepared & Analyzed: 06/12/09							
C10-C28 (TEPH-DRO)	ND	50	mg/kg								
C28-C36 (TEPH-ORO)	ND	50	"								
LCS (9061212-BS1)				Prepared & Analyzed: 06/12/09							
C10-C28 (TEPH-DRO)	ND	50	mg/kg				83.3-127				
LCS (9061212-BS2)				Prepared & Analyzed: 06/12/09							
C10-C28 (TEPH-DRO)	247	50	mg/kg	500		49.4	83.3-127				
LCS Dup (9061212-BSD1)				Prepared & Analyzed: 06/12/09							
C10-C28 (TEPH-DRO)	ND	50	mg/kg				83.3-127			15	
LCS Dup (9061212-BSD2)				Prepared & Analyzed: 06/12/09							
C10-C28 (TEPH-DRO)	385	50	mg/kg	500		77.0	83.3-127	43.7		15	
Matrix Spike (9061212-MS1)				Source: R906082-01		Prepared & Analyzed: 06/12/09					
C10-C28 (TEPH-DRO)	ND	50	mg/kg			ND	75.8-126				
Matrix Spike (9061212-MS2)				Source: R906082-01		Prepared & Analyzed: 06/12/09					
C10-C28 (TEPH-DRO)	473	50	mg/kg	500		ND	94.6	75.8-126			
Matrix Spike Dup (9061212-MSD1)				Source: R906082-01		Prepared & Analyzed: 06/12/09					
C10-C28 (TEPH-DRO)	ND	50	mg/kg			ND	75.8-126			13.6	
Matrix Spike Dup (9061212-MSD2)				Source: R906082-01		Prepared: 06/12/09 Analyzed: 06/13/09					
C10-C28 (TEPH-DRO)	465	50	mg/kg	500		ND	93.0	75.8-126	1.71	13.6	

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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 9061210 - EPA 5030 Soil MS

Blank (9061210-BLK1)

Prepared: 06/12/09 Analyzed: 06/13/09

Benzene	ND	0.0050	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0407		"	0.0400		102	77.3-121			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.5	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0400		96.5	85.3-109			

LCS (9061210-BS1)

Prepared: 06/12/09 Analyzed: 06/13/09

Benzene	0.0944	0.0050	mg/kg	0.100		94.4	70-114			
Toluene	0.0992	0.0050	"	0.100		99.2	72.7-116			
Surrogate: 1,2-Dichloroethane-d4	0.0421		"	0.0400		105	77.3-121			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.2	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.0	85.3-109			

LCS Dup (9061210-BSD1)

Prepared: 06/12/09 Analyzed: 06/13/09

Benzene	0.0954	0.0050	mg/kg	0.100		95.4	70-114	1.05	8.14	
Toluene	0.102	0.0050	"	0.100		102	72.7-116	2.78	7.88	
Surrogate: 1,2-Dichloroethane-d4	0.0413		"	0.0400		103	77.3-121			
Surrogate: Toluene-d8	0.0392		"	0.0400		98.0	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0400		96.2	85.3-109			

Matrix Spike (9061210-MS1)

Source: R906076-05

Prepared: 06/12/09 Analyzed: 06/13/09

Benzene	0.0964	0.0050	mg/kg	0.100	ND	96.4	66.8-117			
Toluene	0.102	0.0050	"	0.100	ND	102	71.5-117			
Surrogate: 1,2-Dichloroethane-d4	0.0454		"	0.0400		114	77.3-121			
Surrogate: Toluene-d8	0.0392		"	0.0400		98.0	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0400		96.5	85.3-109			

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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 9061210 - EPA 5030 Soil MS

Matrix Spike Dup (9061210-MSD1)	Source: R906076-05			Prepared: 06/12/09	Analyzed: 06/13/09						
Benzene	0.0984	0.0050	mg/kg	0.100	ND	98.4	66.8-117	2.05	17.8		
Toluene	0.104	0.0050	"	0.100	ND	104	71.5-117	1.94	14.4		
Surrogate: 1,2-Dichloroethane-d4	0.0455		"	0.0400		114	77.3-121				
Surrogate: Toluene-d8	0.0394		"	0.0400		98.5	91.4-107				
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.0	85.3-109				

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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

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