

Summit Scientific

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December 08, 2009

John Cocroft
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: KMG - Dolph 15-1

Enclosed are the results of analyses for samples received by Summit Scientific on 11/18/09 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to be 'PS' followed by a long, sweeping horizontal line.

Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

Project: KMG - Dolph 15-1
Project Number: KMG 09477
Project Manager: John Cocroft

Reported:
12/08/09 15:45

RPBG01
R911114-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 11/18/09 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	9111915	11/19/09	11/19/09	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 11/18/09 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		108 %	77.7-123		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/18/09 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	9111913	11/19/09	11/20/09	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 11/18/09 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		93.6 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		91.8 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	85.3-109		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/18/09 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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RPBG01
R911114-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance (EC)	0.356	0.00100 mmhos/cm	1	9112002	11/20/09	11/20/09	SM 2510b/mod
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Date Sampled: 11/18/09 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.7		pH Units	"	9112003	11/20/09	11/20/09	EPA 9045B	

Evergreen Analytical Laboratories

Date Sampled: 11/18/09 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.3	0.17	mg/kg	1	9120801	11/25/09	12/08/09	EPA 6020	

Date Sampled: 11/18/09 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	26.0	1.90	meq/L	"	"	12/04/09	"	USDA60 6 (20b)	B-03

Date Sampled: 11/18/09 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Magnesium	7.40	0.750	"	"	"	"	"	"	

Date Sampled: 11/18/09 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.80	0.100	units	"	"	"	"	Calculation	

Date Sampled: 11/18/09 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	130	2.00	meq/L	"	"	"	"	USDA60 6 (20b)	

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RPBG01
R911114-01 (Soil)

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Evergreen Analytical Laboratories

Hazen Laboratories - LDNR True Total Barium - Dry Weight Basis

Date Sampled: 11/18/09 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	130	10	mg/kg	1	9120801	11/24/09	12/08/09	LDNR	

Evergreen Analytical - Hot Water Soluble Boron, Soil Basis

Date Sampled: 11/18/09 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.29	0.050	mg/L	1	9120801	11/30/09	12/08/09	GUPTA	

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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 9111915 - EPA 3550A

Blank (9111915-BLK1)

Prepared: 11/19/09 Analyzed: 11/20/09

C10-C28 (TEPH-DRO)	ND	50	mg/kg
C28-C36 (TEPH-ORO)	ND	50	"

Surrogate: o-Terphenyl	14.4	"	12.5	116	77.7-123
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LCS (9111915-BS1)

Prepared: 11/19/09 Analyzed: 11/20/09

C10-C28 (TEPH-DRO)	520	50	mg/kg	500	104	83.3-127	15
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LCS Dup (9111915-BSD1)

Prepared: 11/19/09 Analyzed: 11/20/09

C10-C28 (TEPH-DRO)	533	50	mg/kg	500	107	83.3-127	2.39	15
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Matrix Spike (9111915-MS1)

Source: R911114-01

Prepared: 11/19/09 Analyzed: 11/20/09

C10-C28 (TEPH-DRO)	542	50	mg/kg	500	29.1	103	75.8-126	13.6
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Matrix Spike Dup (9111915-MSD1)

Source: R911114-01

Prepared: 11/19/09 Analyzed: 11/20/09

C10-C28 (TEPH-DRO)	566	50	mg/kg	500	29.1	107	75.8-126	4.27	13.6
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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 9111913 - EPA 5030 Soil MS

Blank (9111913-BLK1)

Prepared: 11/19/09 Analyzed: 11/20/09

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	0.0258		"	0.0400		64.6	77.3-121			
Surrogate: Toluene-d8	0.0374		"	0.0400		93.5	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0362		"	0.0400		90.4	85.3-109			

LCS (9111913-BS1)

Prepared: 11/19/09 Analyzed: 11/20/09

Benzene	0.0722	0.0050	mg/kg	0.100		72.2	70-114		8.14	
Toluene	0.0774	0.0050	"	0.100		77.4	72.7-116		7.88	
Surrogate: 1,2-Dichloroethane-d4	0.0335		"	0.0400		83.7	77.3-121			
Surrogate: Toluene-d8	0.0392		"	0.0400		98.0	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400		95.0	85.3-109			

LCS Dup (9111913-BSD1)

Prepared: 11/19/09 Analyzed: 11/20/09

Benzene	0.0699	0.0050	mg/kg	0.100		69.9	70-114	3.17	8.14	
Toluene	0.0734	0.0050	"	0.100		73.4	72.7-116	5.25	7.88	
Surrogate: 1,2-Dichloroethane-d4	0.0327		"	0.0400		81.7	77.3-121			
Surrogate: Toluene-d8	0.0374		"	0.0400		93.4	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0369		"	0.0400		92.3	85.3-109			

Matrix Spike (9111913-MS1)

Source: R911114-01

Prepared: 11/19/09 Analyzed: 11/20/09

Benzene	0.0677	0.0050	mg/kg	0.100	ND	67.7	66.8-117		17.8	
Toluene	0.0715	0.0050	"	0.100	ND	71.5	71.5-117		14.4	
Surrogate: 1,2-Dichloroethane-d4	0.0367		"	0.0400		91.7	77.3-121			
Surrogate: Toluene-d8	0.0372		"	0.0400		93.1	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0384		"	0.0400		96.1	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	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 9111913 - EPA 5030 Soil MS

Matrix Spike Dup (9111913-MSD1)		Source: R911114-01			Prepared: 11/19/09		Analyzed: 11/20/09			
Benzene	0.0680	0.0050	mg/kg	0.100	ND	68.0	66.8-117	0.398	17.8	
Toluene	0.0720	0.0050	"	0.100	ND	72.0	71.5-117	0.711	14.4	
Surrogate: 1,2-Dichloroethane-d4	0.0374		"	0.0400		93.4	77.3-121			
Surrogate: Toluene-d8	0.0388		"	0.0400		97.0	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0400		96.4	85.3-109			

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Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
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Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 9112002 - General Preparation

Duplicate (9112002-DUP1)

Source: R911113-01

Prepared & Analyzed: 11/20/09

Specific Conductance (EC)	0.179	0.00100	mmhos/cm	0.173	3.24	20
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Batch 9112003 - General Preparation

Duplicate (9112003-DUP1)

Source: R911113-01

Prepared & Analyzed: 11/20/09

pH	7.9		pH Units	7.8	1.91	20
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Notes and Definitions

B-03 Analyte detected in the associated Method Blank, value not subtracted from result
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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