

# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.374.5933 - fax

April 11, 2008

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

RE: PDC - Miller Deppe 11, 12, 22-13

Enclosed are the results of analyses for samples received by Summit Scientific on 04/10/08 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'BS', with a long, sweeping horizontal line extending to the right.

Ben Shrewsbury  
Vice President / Laboratory Director



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

Project: PDC - Miller Deppe 11, 12, 22-13

Project Number: PDC 0708  
Project Manager: John Peterson

**Reported:**  
04/11/08 08:46

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB01@5'	R804072-01	Soil	04/10/08 11:05	04/10/08 16:30
SB02@4'	R804072-02	Soil	04/10/08 11:35	04/10/08 16:30
SB03@5'	R804072-03	Soil	04/10/08 12:10	04/10/08 16:30

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

Project: PDC - Miller Deppe 11, 12, 22-13

Project Number: PDC 0708  
Project Manager: John Peterson

Reported:  
04/11/08 08:46

Summit Scientific *S<sub>2</sub>* 2804072

741 Corporate Circle Suite 1 ♦ Golden, Colorado 80401  
303-277-9310 ♦ 303-277-9531 Fax

Page 1 of 1

Client: LT Environmental, Inc.  
Address: 4600 West 60th Avenue  
City/State/Zip: Arvada, CO 80003  
Phone: (303) 433-9788  
Project Manager: ~~John Peterson~~ Robert Jensen  
E-Mail: jecoroff@ltenv.com  
Project Name: MILLER DEPPE 12, 22-13  
Sampler Name: JUSTIN SUGARMAN  
Project Number: PDC0708

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:				Special Instructions	Notes
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	Total Carbon Chain	BTEX	72 Hours Standard		
SB0105'	4/10/08	1105	1		X			X								
SB0204'	↓	1135	1		X			X								
SB0305'	↓	1210	1		X			X								
<i>J. Peterson</i>																
Relinquished by:	Date/Time:	Received by:		Date/Time:	Turn Around Time (Check)						72 Hours Standard					
Justin Jensen	4/10/08 11:28	M Jensen		4/10/08 16:20					Same Day		72 Hours Standard					
Relinquished by:	Date/Time:	Received by:		Date/Time:					48 Hours		Sample Integrity:					
											Temperature Upon Receipt: 17		Intact: Yes No			

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

Project: PDC - Miller Deppe 11, 12, 22-13

Project Number: PDC 0708  
Project Manager: John Peterson

Reported:  
04/11/08 08:46

**SB01@5'**  
**R804072-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/10/08 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (TEPH-GRO)	ND	50	mg/kg	1	8041006	04/10/08	04/10/08	8015 Full Carbon Chain	
C10-C28 (TEPH-DRO)	ND	50	"	"	"	"	"	"	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/10/08 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		90.2 %	70-130		"	"	"	"	
Surrogate: Trifluorotoluene		88.8 %	70-130		"	"	"	"	

Date Sampled: **04/10/08 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C36 Total TEPH	0.0		"	"	[CALC]	"	"	EPA 8015	

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 Arvada CO, 80003

Project: PDC - Miller Deppe 11, 12, 22-13

Project Number: PDC 0708  
 Project Manager: John Peterson

**Reported:**  
 04/11/08 08:46

**SB02@4'**  
**R804072-02 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/10/08 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C6-C10 (TEPH-GRO)</b>	<b>2300</b>	50	mg/kg	1	8041006	04/10/08	04/10/08	8015 Full Carbon Chain	
<b>C10-C28 (TEPH-DRO)</b>	<b>1100</b>	50	"	"	"	"	"	"	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/10/08 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		77.6 %	70-130		"	"	"	"	
Surrogate: Trifluorotoluene		83.8 %	70-130		"	"	"	"	

Date Sampled: **04/10/08 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C6-C36 Total TEPH</b>	<b>3400</b>		"	"	[CALC]	"	"	EPA 8015	

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Project: PDC - Miller Deppe 11, 12, 22-13

Project Number: PDC 0708  
Project Manager: John Peterson

**Reported:**  
04/11/08 08:46

**SB03@5'**  
**R804072-03 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/10/08 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C6-C10 (TEPH-GRO)</b>	<b>6600</b>	50	mg/kg	1	8041006	04/10/08	04/10/08	8015 Full Carbon Chain	
<b>C10-C28 (TEPH-DRO)</b>	<b>3500</b>	50	"	"	"	"	"	"	
<b>C28-C36 (TEPH-ORO)</b>	<b>350</b>	50	"	"	"	"	"	"	

Date Sampled: **04/10/08 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		72.4 %	70-130		"	"	"	"	
<i>Surrogate: Trifluorotoluene</i>		83.6 %	70-130		"	"	"	"	

Date Sampled: **04/10/08 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C6-C36 Total TEPH</b>	<b>10000</b>		"	"	[CALC]	"	"	EPA 8015	

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LT Environmental, Inc.  
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Arvada CO, 80003

Project: PDC - Miller Deppe 11, 12, 22-13

Project Number: PDC 0708  
Project Manager: John Peterson

Reported:  
04/11/08 08:46

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch 8041006 - EPA 3550A**

**Blank (8041006-BLK1)**

Prepared: 04/10/08 Analyzed: 04/11/08

C6-C10 (TEPH-GRO)	ND	50	mg/kg							
C10-C28 (TEPH-DRO)	ND	50	"							
C28-C36 (TEPH-ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	48.3		"	50.0		96.6	70-130			
Surrogate: Trifluorotoluene	92.9		"	100		92.9	70-130			

**LCS (8041006-BS1)**

Prepared & Analyzed: 04/10/08

C10-C28 (TEPH-DRO)	430	50	mg/kg	500		86.0	65.3-142			
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**Matrix Spike (8041006-MS1)**

Source: R804071-01

Prepared: 04/10/08 Analyzed: 04/11/08

C10-C28 (TEPH-DRO)	548	50	mg/kg	500	34	103	55.2-139			
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**Matrix Spike Dup (8041006-MSD1)**

Source: R804071-01

Prepared: 04/10/08 Analyzed: 04/11/08

C10-C28 (TEPH-DRO)	552	50	mg/kg	500	34	104	55.2-139	0.727	16.7	
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Arvada CO, 80003

Project: PDC - Miller Deppe 11, 12, 22-13

Project Number: PDC 0708  
Project Manager: John Peterson

**Reported:**  
04/11/08 08:46

### 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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January 16, 2009

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

RE: PDC - Miller Deppe 11, 12, 22-13

Enclosed are the results of analyses for samples received by Summit Scientific on 01/15/09 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'BS', with a long, sweeping horizontal line extending to the right.

Ben Shrewsbury  
Vice President / Laboratory Director

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

Project: PDC - Miller Deppe 11, 12, 22-13

Project Number: PDC 0708  
 Project Manager: John Peterson

**Reported:**  
 01/16/09 09:16

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01@4'	R901069-01	Soil	01/15/09 13:55	01/15/09 17:00
E01@4'	R901069-02	Soil	01/15/09 13:58	01/15/09 17:00
S01@4'	R901069-03	Soil	01/15/09 14:01	01/15/09 17:00
B01@10'	R901069-04	Soil	01/15/09 14:04	01/15/09 17:00
W01@4'	R901069-05	Soil	01/15/09 14:08	01/15/09 17:00





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

Project: PDC - Miller Deppe 11, 12, 22-13

Project Number: PDC 0708  
Project Manager: John Peterson

**Reported:**  
01/16/09 09:16

**N01@4'**  
**R901069-01 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **01/15/09 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (GRO)	ND	50	mg/kg	1	9011505	01/15/09	01/16/09	8015 Full Carbon Chain	
<b>C10-C28 (DRO)</b>	<b>510</b>	50	"	"	"	"	"	"	"
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	
<b>C6-C36 TPH</b>	<b>510</b>	50	"	"	"	"	"	"	

Date Sampled: **01/15/09 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		103 %	77.7-123		"	"	"	"	
Surrogate: Trifluorotoluene		112 %	73.9-116		"	"	"	"	

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Arvada CO, 80003

Project: PDC - Miller Deppe 11, 12, 22-13

Project Number: PDC 0708  
Project Manager: John Peterson

**Reported:**  
01/16/09 09:16

**E01@4'**  
**R901069-02 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **01/15/09 13:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (GRO)	ND	50	mg/kg	1	9011505	01/15/09	01/16/09	8015 Full Carbon Chain	
C10-C28 (DRO)	ND	50	"	"	"	"	"	"	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	
C6-C36 TPH	ND	50	"	"	"	"	"	"	

Date Sampled: **01/15/09 13:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		99.6 %	77.7-123		"	"	"	"	
Surrogate: Trifluorotoluene		115 %	73.9-116		"	"	"	"	

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Project: PDC - Miller Deppe 11, 12, 22-13

Project Number: PDC 0708  
Project Manager: John Peterson

**Reported:**  
01/16/09 09:16

**S01@4'**  
**R901069-03 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **01/15/09 14:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (GRO)	ND	50	mg/kg	1	9011505	01/15/09	01/16/09	8015 Full Carbon Chain	
C10-C28 (DRO)	ND	50	"	"	"	"	"	"	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	
C6-C36 TPH	ND	50	"	"	"	"	"	"	

Date Sampled: **01/15/09 14:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		99.8 %	77.7-123		"	"	"	"	
Surrogate: Trifluorotoluene		113 %	73.9-116		"	"	"	"	

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Project: PDC - Miller Deppe 11, 12, 22-13

Project Number: PDC 0708  
Project Manager: John Peterson

**Reported:**  
01/16/09 09:16

**B01@10'**  
**R901069-04 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **01/15/09 14:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (GRO)	ND	50	mg/kg	1	9011505	01/15/09	01/16/09	8015 Full Carbon Chain	
C10-C28 (DRO)	ND	50	"	"	"	"	"	"	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	
C6-C36 TPH	ND	50	"	"	"	"	"	"	

Date Sampled: **01/15/09 14:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		100 %	77.7-123		"	"	"	"	
Surrogate: Trifluorotoluene		115 %	73.9-116		"	"	"	"	

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Arvada CO, 80003

Project: PDC - Miller Deppe 11, 12, 22-13

Project Number: PDC 0708  
Project Manager: John Peterson

**Reported:**  
01/16/09 09:16

**W01@4'**  
**R901069-05 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **01/15/09 14:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (GRO)	ND	50	mg/kg	1	9011505	01/15/09	01/16/09	8015 Full Carbon Chain	
C10-C28 (DRO)	ND	50	"	"	"	"	"	"	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	
C6-C36 TPH	ND	50	"	"	"	"	"	"	

Date Sampled: **01/15/09 14:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		101 %	77.7-123		"	"	"	"	
Surrogate: Trifluorotoluene		110 %	73.9-116		"	"	"	"	

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Project: PDC - Miller Deppe 11, 12, 22-13

Project Number: PDC 0708  
Project Manager: John Peterson

Reported:  
01/16/09 09:16

**Total Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch 9011505 - EPA 3550A**

**Blank (9011505-BLK1)**

Prepared: 01/15/09 Analyzed: 01/16/09

C6-C10 (GRO)	ND	50	mg/kg								
C10-C28 (DRO)	ND	50	"								
C28-C36 (ORO)	ND	50	"								
C6-C36 TPH	ND	50	"								

**LCS (9011505-BS1)**

Prepared: 01/15/09 Analyzed: 01/16/09

C10-C28 (DRO)	463	50	mg/kg	500		92.6	83.3-127				
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**LCS Dup (9011505-BSD1)**

Prepared: 01/15/09 Analyzed: 01/16/09

C10-C28 (DRO)	469	50	mg/kg	500		93.8	83.3-127	1.29	15		
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**Matrix Spike (9011505-MS1)**

Source: R901069-01

Prepared: 01/15/09 Analyzed: 01/16/09

C10-C28 (DRO)	1230	50	mg/kg	500	510	144	75.8-126				QM-06
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**Matrix Spike Dup (9011505-MSD1)**

Source: R901069-01

Prepared: 01/15/09 Analyzed: 01/16/09

C10-C28 (DRO)	1300	50	mg/kg	500	510	158	75.8-126	5.53	13.6		QM-06
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Project Manager: John Peterson

**Reported:**  
01/16/09 09:16

## Notes and Definitions

- QM-06 Due to noted non-homogeneity of the QC sample matrix, the MS/MSD did not provide reliable results for accuracy and precision. Sample results for the QC batch were accepted based on LCS/LCSD percent recoveries and RPD values.
- 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

