

# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

July 23, 2008

John Peterson  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: PDC - Noffsinger 31-33

Enclosed are the results of analyses for samples received by Summit Scientific on 07/21/08 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'PS', with a long horizontal flourish extending to the right.

Paul Shrewsbury For Ben Shrewsbury  
Vice President / Laboratory Director



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

Project: PDC - Noffsinger 31-33

Project Number: PDC 08146  
Project Manager: John Peterson

**Reported:**  
07/23/08 08:03

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01@3'	R807114-01	Soil	07/22/08 10:23	07/21/08 16:45
E01@3'	R807114-02	Soil	07/21/08 10:51	07/21/08 16:45
S01@3'	R807114-03	Soil	07/21/08 10:53	07/21/08 16:45
W01@3'	R807114-04	Soil	07/21/08 10:56	07/21/08 16:45
B01@6'	R807114-05	Soil	07/21/08 11:00	07/21/08 16:45
GW01@7'	R807114-06	Water	07/21/08 13:34	07/21/08 16:45
B02@5'	R807114-07	Soil	07/21/08 13:40	07/21/08 16:45
N02@3'	R807114-08	Soil	07/21/08 13:42	07/21/08 16:45
S02@3'	R807114-09	Soil	07/21/08 13:44	07/21/08 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: PDC - Noffsinger 31-33

Project Number: PDC 08146  
Project Manager: John Peterson

Reported:  
07/23/08 08:03

# Summit Scientific

S<sub>2</sub>

741 Corporate Circle Suite 1 ♦ Golden, Colorado 80401  
303-277-9310 ♦ 303-277-9331 Fax

ent: LT Environmental, Inc.  
dress: 4600 West 60th Avenue  
y/State/Zip: Arvada, CO 80003  
ne: (303) 433-9788  
mpler Name: *M. Harrison*

Project Manager: John Peterson  
E-Mail: [jpeterson@ltenv.com](mailto:jpeterson@ltenv.com)  
Project Name: *Noffsinger 31-33*  
Project Number: *PDC08146*

Page *1* of *1*

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix				Analyze For:				Special Instructions	
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	Total Carbon Chain	BTEX				
N0103	7-21	1048	1		X			X	X								
E0103		1051	1		X			X	X								
S0103		1053	1		X			X	X								
W0103		1056	1		X			X	X								
B0106		1100	1		X			X	X								
GW0107		1334	3	X													
B0205		1340	1		X			X	X								
N0203		1342	1		X			X	X								
S0203		1344	1		X			X	X								
Inquired by: <i>M.H.</i> Date/Time: <i>7-21-08 1440</i>				Received by: <i>[Signature]</i> Date/Time: <i>7-21-08 1245</i>				Turn Around Time (Check)				Notes: <i>2</i>					
Inquired by: <i>[Signature]</i> Date/Time: <i>7-21-08 1440</i>				Received by: <i>[Signature]</i> Date/Time: <i>7-21-08 1245</i>				Sample Integrity: <input checked="" type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours				Temperature Upon Receipt: <i>4.5</i>					
Inquired by: <i>[Signature]</i> Date/Time: <i>7-21-08 1440</i>				Received in Lab by: <i>[Signature]</i> Date/Time: <i>7-21-08 1245</i>				Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									

[www.s2scientific.com](http://www.s2scientific.com)



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

Project: PDC - Noffsinger 31-33

Project Number: PDC 08146  
 Project Manager: John Peterson

**Reported:**  
 07/23/08 08:03

**N01@3'**  
**R807114-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **07/22/08 10:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (TEPH-GRO)	ND	50	mg/kg	1	8072108	07/21/08	07/22/08	8015 Full Carbon Chain	
<b>C10-C28 (TEPH-DRO)</b>	<b>85</b>	50	"	"	"	"	"	"	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/22/08 10:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		90.2 %	70-130		"	"	"	"	
Surrogate: Trifluorotoluene		96.8 %	70-130		"	"	"	"	

Date Sampled: **07/22/08 10:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C6-C36 Total TEPH</b>	<b>85</b>		"	"	[CALC]	"	"	EPA 8015	

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: PDC - Noffsinger 31-33

Project Number: PDC 08146  
 Project Manager: John Peterson

**Reported:**  
 07/23/08 08:03

**E01@3'**  
**R807114-02 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **07/21/08 10:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (TEPH-GRO)	ND	50	mg/kg	1	8072108	07/21/08	07/21/08	8015 Full Carbon Chain	
C10-C28 (TEPH-DRO)	ND	50	"	"	"	"	"	"	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/21/08 10:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		92.2 %	70-130		"	"	"	"	
Surrogate: Trifluorotoluene		99.9 %	70-130		"	"	"	"	

Date Sampled: **07/21/08 10:51**

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

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: PDC - Noffsinger 31-33

Project Number: PDC 08146  
Project Manager: John Peterson

**Reported:**  
07/23/08 08:03

**S01@3'**  
**R807114-03 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **07/21/08 10:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (TEPH-GRO)	ND	50	mg/kg	1	8072108	07/21/08	07/21/08	8015 Full Carbon Chain	
C10-C28 (TEPH-DRO)	ND	50	"	"	"	"	"	"	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/21/08 10:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		95.0 %	70-130		"	"	"	"	
Surrogate: Trifluorotoluene		101 %	70-130		"	"	"	"	

Date Sampled: **07/21/08 10:53**

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

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: PDC - Noffsinger 31-33

Project Number: PDC 08146  
Project Manager: John Peterson

**Reported:**  
07/23/08 08:03

**W01@3'**  
**R807114-04 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **07/21/08 10:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (TEPH-GRO)	ND	50	mg/kg	1	8072108	07/21/08	07/22/08	8015 Full Carbon Chain	
C10-C28 (TEPH-DRO)	ND	50	"	"	"	"	"	"	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/21/08 10:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		94.2 %	70-130		"	"	"	"	
Surrogate: Trifluorotoluene		101 %	70-130		"	"	"	"	

Date Sampled: **07/21/08 10:56**

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

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: PDC - Noffsinger 31-33

Project Number: PDC 08146  
Project Manager: John Peterson

**Reported:**  
07/23/08 08:03

**B01@6'**  
**R807114-05 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **07/21/08 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (TEPH-GRO)	ND	50	mg/kg	1	8072108	07/21/08	07/22/08	8015 Full Carbon Chain	
<b>C10-C28 (TEPH-DRO)</b>	<b>270</b>	50	"	"	"	"	"	"	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/21/08 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		92.8 %	70-130		"	"	"	"	
Surrogate: Trifluorotoluene		102 %	70-130		"	"	"	"	

Date Sampled: **07/21/08 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C6-C36 Total TEPH</b>	<b>270</b>		"	"	[CALC]	"	"	EPA 8015	

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: PDC - Noffsinger 31-33

Project Number: PDC 08146  
 Project Manager: John Peterson

**Reported:**  
 07/23/08 08:03

**GW01@7'**  
**R807114-06 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **07/21/08 13:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>16</b>	1.0	ug/l	1	8072105	07/21/08	07/21/08	EPA 8260B	
<b>Toluene</b>	<b>1.6</b>	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>15</b>	1.0	"	"	"	"	"	"	

Date Sampled: **07/21/08 13:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %	80-120		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.0 %	92.1-106		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	84.5-110		"	"	"	"	

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: PDC - Noffsinger 31-33

Project Number: PDC 08146  
 Project Manager: John Peterson

**Reported:**  
 07/23/08 08:03

**B02@5'**  
**R807114-07 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **07/21/08 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (TEPH-GRO)	ND	50	mg/kg	1	8072108	07/21/08	07/22/08	8015 Full Carbon Chain	
C10-C28 (TEPH-DRO)	ND	50	"	"	"	"	"	"	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/21/08 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		92.6 %	70-130		"	"	"	"	
Surrogate: Trifluorotoluene		100 %	70-130		"	"	"	"	

Date Sampled: **07/21/08 13:40**

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

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: PDC - Noffsinger 31-33

Project Number: PDC 08146  
Project Manager: John Peterson

Reported:  
07/23/08 08:03

**N02@3'**  
**R807114-08 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **07/21/08 13:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (TEPH-GRO)	ND	50	mg/kg	1	8072108	07/21/08	07/22/08	8015 Full Carbon Chain	
C10-C28 (TEPH-DRO)	ND	50	"	"	"	"	"	"	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/21/08 13:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		93.4 %	70-130		"	"	"	"	
Surrogate: Trifluorotoluene		100 %	70-130		"	"	"	"	

Date Sampled: **07/21/08 13:42**

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

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: PDC - Noffsinger 31-33

Project Number: PDC 08146  
Project Manager: John Peterson

**Reported:**  
07/23/08 08:03

**S02@3'**  
**R807114-09 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **07/21/08 13:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (TEPH-GRO)	ND	50	mg/kg	1	8072108	07/21/08	07/22/08	8015 Full Carbon Chain	
C10-C28 (TEPH-DRO)	ND	50	"	"	"	"	"	"	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/21/08 13:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		92.6 %	70-130		"	"	"	"	
Surrogate: Trifluorotoluene		98.6 %	70-130		"	"	"	"	

Date Sampled: **07/21/08 13:44**

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

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: PDC - Noffsinger 31-33

Project Number: PDC 08146  
Project Manager: John Peterson

Reported:  
07/23/08 08:03

**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 8072108 - EPA 5030 Soil GC**

**Blank (8072108-BLK1)**

Prepared: 07/21/08 Analyzed: 07/22/08

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	44.8		"	50.0		89.6	70-130			
Surrogate: Trifluorotoluene	98.2		"	100		98.2	70-130			

**Blank (8072108-BLK2)**

Prepared: 07/21/08 Analyzed: 07/22/08

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	43.9		"	50.0		87.8	70-130			
Surrogate: Trifluorotoluene	97.3		"	100		97.3	70-130			

**LCS (8072108-BS1)**

Prepared: 07/21/08 Analyzed: 07/22/08

C10-C28 (TEPH-DRO)	521	50	mg/kg	500		104	65.3-142			
Surrogate: <i>o</i> -Terphenyl	45.6		"	50.0		91.2	70-130			
Surrogate: Trifluorotoluene	99.8		"	100		99.8	70-130			

**LCS (8072108-BS2)**

Prepared: 07/21/08 Analyzed: 07/22/08

C10-C28 (TEPH-DRO)	521	50	mg/kg	500		104	65.3-142			
Surrogate: <i>o</i> -Terphenyl	44.1		"	50.0		88.2	70-130			
Surrogate: Trifluorotoluene	98.5		"	100		98.5	70-130			

**LCS Dup (8072108-BSD1)**

Prepared: 07/21/08 Analyzed: 07/22/08

C10-C28 (TEPH-DRO)	514	50	mg/kg	500		103	65.3-142	1.35	19.7	
Surrogate: <i>o</i> -Terphenyl	44.6		"	50.0		89.2	70-130			
Surrogate: Trifluorotoluene	98.7		"	100		98.7	70-130			

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: PDC - Noffsinger 31-33

Project Number: PDC 08146  
Project Manager: John Peterson

Reported:  
07/23/08 08:03

**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 8072108 - EPA 5030 Soil GC**

**LCS Dup (8072108-BSD2)**

Prepared: 07/21/08 Analyzed: 07/22/08

C10-C28 (TEPH-DRO)	546	50	mg/kg	500		109	65.3-142	4.69	19.7	
Surrogate: <i>o</i> -Terphenyl	46.4		"	50.0		92.8	70-130			
Surrogate: Trifluorotoluene	99.8		"	100		99.8	70-130			

**Matrix Spike (8072108-MS1)**

Source: R807113-01

Prepared: 07/21/08 Analyzed: 07/22/08

C10-C28 (TEPH-DRO)	1050	50	mg/kg	500	700	70.0	55.2-139			
Surrogate: <i>o</i> -Terphenyl	42.6		"	50.0		85.2	70-130			
Surrogate: Trifluorotoluene	96.5		"	100		96.5	70-130			

**Matrix Spike (8072108-MS2)**

Source: R807117-01

Prepared: 07/21/08 Analyzed: 07/22/08

C10-C28 (TEPH-DRO)	560	50	mg/kg	500	ND	112	55.2-139			
Surrogate: <i>o</i> -Terphenyl	45.8		"	50.0		91.6	70-130			
Surrogate: Trifluorotoluene	100		"	100		100	70-130			

**Matrix Spike Dup (8072108-MSD1)**

Source: R807113-01

Prepared: 07/21/08 Analyzed: 07/22/08

C10-C28 (TEPH-DRO)	958	50	mg/kg	500	700	51.6	55.2-139	9.16	16.7	
Surrogate: <i>o</i> -Terphenyl	43.1		"	50.0		86.2	70-130			
Surrogate: Trifluorotoluene	96.7		"	100		96.7	70-130			

**Matrix Spike Dup (8072108-MSD2)**

Source: R807117-01

Prepared: 07/21/08 Analyzed: 07/22/08

C10-C28 (TEPH-DRO)	533	50	mg/kg	500	ND	107	55.2-139	4.94	16.7	
Surrogate: <i>o</i> -Terphenyl	42.1		"	50.0		84.2	70-130			
Surrogate: Trifluorotoluene	96.6		"	100		96.6	70-130			

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: PDC - Noffsinger 31-33

Project Number: PDC 08146  
Project Manager: John Peterson

Reported:  
07/23/08 08:03

**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 8072105 - EPA 5030 Water MS**

**Blank (8072105-BLK1)**

Prepared & Analyzed: 07/21/08

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.3		104	80-120			
Surrogate: Toluene-d8	12.8		"	13.3		96.2	92.1-106			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		96.2	84.5-110			

**LCS (8072105-BS1)**

Prepared & Analyzed: 07/21/08

Benzene	28.3	1.0	ug/l	33.3		85.0	61.4-110			
Toluene	30.0	1.0	"	33.3		90.1	54.2-116			
Surrogate: 1,2-Dichloroethane-d4	14.2		"	13.3		107	80-120			
Surrogate: Toluene-d8	12.7		"	13.3		95.5	92.1-106			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		97.0	84.5-110			

**Matrix Spike (8072105-MS1)**

Source: R807093-01

Prepared & Analyzed: 07/21/08

Benzene	88.1	1.0	ug/l	33.3	59	87.4	61.5-109			
Toluene	31.7	1.0	"	33.3	1.3	91.3	55.6-113			
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.3		104	80-120			
Surrogate: Toluene-d8	12.9		"	13.3		97.0	92.1-106			
Surrogate: 4-Bromofluorobenzene	13.5		"	13.3		102	84.5-110			

**Matrix Spike Dup (8072105-MSD1)**

Source: R807093-01

Prepared & Analyzed: 07/21/08

Benzene	91.7	1.0	ug/l	33.3	59	98.2	61.5-109	4.00	21.7	
Toluene	31.7	1.0	"	33.3	1.3	91.3	55.6-113	0.00	9.18	
Surrogate: 1,2-Dichloroethane-d4	13.6		"	13.3		102	80-120			
Surrogate: Toluene-d8	12.8		"	13.3		96.2	92.1-106			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		101	84.5-110			

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: PDC - Noffsinger 31-33

Project Number: PDC 08146  
Project Manager: John Peterson

**Reported:**  
07/23/08 08:03

### 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.*

# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

September 05, 2008

John Peterson  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: PDC - Noffsinger 31-33

Enclosed are the results of analyses for samples received by Summit Scientific on 08/29/08 09:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'PS', with a long horizontal flourish extending to the right.

Paul Shrewsbury For Ben Shrewsbury  
Vice President / Laboratory Director



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

Project: PDC - Noffsinger 31-33

Project Number: PDC 08146  
Project Manager: John Peterson

**Reported:**  
09/05/08 14:40

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	R809007-01	Water	08/28/08 14:00	08/29/08 09:15
MW02	R809007-02	Water	08/28/08 14:05	08/29/08 09:15
MW03	R809007-03	Water	08/28/08 14:10	08/29/08 09:15

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: PDC - Noffsinger 31-33

Project Number: PDC 08146  
 Project Manager: John Peterson

**Reported:**  
 09/05/08 14:40

**MW01**  
**R809007-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/28/08 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	8090302	09/03/08	09/04/08	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/28/08 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.7 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		97.0 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	85.3-109		"	"	"	"	

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: PDC - Noffsinger 31-33

Project Number: PDC 08146  
 Project Manager: John Peterson

**Reported:**  
 09/05/08 14:40

**MW02**  
**R809007-02 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/28/08 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	8090302	09/03/08	09/04/08	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/28/08 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.5 %	77.3-121		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96.2 %	91.4-107		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %	85.3-109		"	"	"	"	

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: PDC - Noffsinger 31-33

Project Number: PDC 08146  
 Project Manager: John Peterson

**Reported:**  
 09/05/08 14:40

**MW03**  
**R809007-03 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/28/08 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>47</b>	1.0	ug/l	1	8090302	09/03/08	09/04/08	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>29</b>	1.0	"	"	"	"	"	"	

Date Sampled: **08/28/08 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.7 %	77.3-121		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.0 %	91.4-107		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	85.3-109		"	"	"	"	

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: PDC - Noffsinger 31-33

Project Number: PDC 08146  
Project Manager: John Peterson

Reported:  
09/05/08 14:40

**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 8090302 - EPA 5030 Water MS**

**Blank (8090302-BLK1)**

Prepared: 09/03/08 Analyzed: 09/04/08

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.2		"	13.3		99.2	77.3-121			
Surrogate: Toluene-d8	12.8		"	13.3		96.2	91.4-107			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.7	85.3-109			

**LCS (8090302-BS1)**

Prepared: 09/03/08 Analyzed: 09/04/08

Benzene	29.1	1.0	ug/l	33.3		87.4	70-114			
Toluene	29.4	1.0	"	33.3		88.3	72.7-116			
Surrogate: 1,2-Dichloroethane-d4	13.3		"	13.3		100	77.3-121			
Surrogate: Toluene-d8	12.8		"	13.3		96.2	91.4-107			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		101	85.3-109			

**LCS Dup (8090302-BSD1)**

Prepared: 09/03/08 Analyzed: 09/04/08

Benzene	30.3	1.0	ug/l	33.3	1.9	91.0	70-114	4.04	8.14	
Toluene	30.4	1.0	"	33.3	ND	91.3	72.7-116	3.34	7.88	
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.3		101	77.3-121			
Surrogate: Toluene-d8	12.8		"	13.3		96.2	91.4-107			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.7	85.3-109			

**Matrix Spike (8090302-MS1)**

Source: R809005-01

Prepared: 09/03/08 Analyzed: 09/04/08

Benzene	32.2	1.0	ug/l	33.3	1.9	91.0	66.8-117			
Toluene	30.4	1.0	"	33.3	ND	91.3	71.5-117			
Surrogate: 1,2-Dichloroethane-d4	13.6		"	13.3		102	77.3-121			
Surrogate: Toluene-d8	12.9		"	13.3		97.0	91.4-107			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.5	85.3-109			

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: PDC - Noffsinger 31-33

Project Number: PDC 08146  
 Project Manager: John Peterson

**Reported:**  
 09/05/08 14:40

**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 8090302 - EPA 5030 Water MS**

<b>Matrix Spike Dup (8090302-MSD1)</b>	<b>Source: R809005-01</b>			Prepared: 09/03/08		Analyzed: 09/04/08				
Benzene	30.1	1.0	ug/l	33.3	1.9	84.7	66.8-117	6.74	17.8	
Toluene	29.1	1.0	"	33.3	ND	87.4	71.5-117	4.37	14.4	
Surrogate: 1,2-Dichloroethane-d4	15.0		"	13.3		113	77.3-121			
Surrogate: Toluene-d8	12.9		"	13.3		97.0	91.4-107			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		101	85.3-109			

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: PDC - Noffsinger 31-33

Project Number: PDC 08146  
Project Manager: John Peterson

**Reported:**  
09/05/08 14:40

### 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.*

**Material Safety Data Sheet**

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

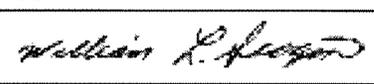
**U.S. Department of Labor**

Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072

IDENTITY) **Micro-Blaze® Emergency Liquid Spill Control**

*Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.*

**Section I**

Manufacturer's name	Verde Environmental, Inc.	Emergency Telephone Number	800 / 626-6598
Address	9223 Eastex Freeway	Telephone Number for Information	713 / 691-6468
	Houston, Texas 77093-7001	Date Prepared	12 / 01 / 05
		Signature of Preparer	
		William L. Scogin, President	

**Section II—Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity, Common Name(s))	CAS Number:	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
---	-------------	----------	-----------	--------------------------	--------------

\*\*\*\* NO HAZARDOUS COMPONENTS OR INGREDIENTS \*\*\*\*

Per OSHA -29 CFR 1910.1200 -- All ingredients are organic and completely biodegradable.

Ingredients not precisely identified are proprietary or non-hazardous. All chemical ingredients appear on the EPA TSCA Inventory.

**Section III—Physical/Chemical Characteristics**

Boiling Point	100°C	Specific Gravity (H <sub>2</sub> O = 1)	1.0
Vapor Pressure (mm Hg)	Equiv. water	Melting Point	N / A
Vapor Density (AIR = 1)	Equiv. water	Evaporation Rate (Butyl Acetate = 1)	N / A

Solubility in Water 99%

Appearance and Odor Cream to tan, opaque liquid, perfumed

**Section IV—Fire and Explosion Hazard Data**

Flash Point (Method Used)	N / A	Flammable Limits	LEL	UEL
		Non-flammable	----	----

Extinguishing Media Non-flammable

Special Fire Fighting Procedures None

Unusual Fire and Explosion Hazards None - NON-FLAMMABLE

Section V—Reactivity Data			
Stability	Unstable		Conditions to Avoid
	Stable <b>XXXX</b>		
Incompatibility ( <i>Materials to Avoid</i> ) <b>Strong acids or alkali compounds may inactivate biological cultures.</b>			
Hazardous Decomposition or Byproducts			
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	<b>XXXX</b>	
Section VI—Health Hazard Data			
Route(s) of Entry	Inhalation?	Skin?	Ingestion?
Health Hazards ( <i>Acute and Chronic</i> ) <b>May cause diarrhea if ingested in large amounts.</b>			<b>NON-TOXIC</b>
Organisms used are non-pathogenic. These organisms are susceptible to commonly use antibiotics.			
Carcinogenicity	N / A	NTP? N / A	IARC Monographs? N / A OSHA Regulated? N / A
Signs and Symptoms of Exposure <b>Skin: slight redness on hands and forearms if individual has a history of dermal allergic reaction.</b>			
Medical Conditions			
Generally Aggravated by Exposure <b>Dermal allergic reaction on skin if susceptible person has continual exposure.</b>			
Emergency and First Aid Procedures <b>Ingestion: Drink water or milk to dilute. Induce vomiting only if advised by physician or poison control center.</b>			
Section VII—Precautions for Safe Handling and Use			
Steps to Be Taken in Case Material Is Released or Spilled <b>May mop up spills; may flush down sanitary drain into waste water treatment lines.</b>			
Waste Disposal Method <b>Disposal of this product or its residue must be done in accordance with all local, state and federal requirements.</b>			
Precautions to Be Taken in Handling and Storing <b>Avoid eye contact.</b>			
Other Precautions <b>To maintain shelf life, avoid temperatures under 32° or over 120°F for long periods of time. Microbes are viable up to 180° F. KEEP FROM PROLONGED FREEZING.</b>			
Section VII—Control Measures			
Respiratory Protection ( <i>Specify Type</i> ) <b>None required with adequate ventilation.</b>			
Ventilation	Local Exhaust	Special	
	Mechanical ( <i>General</i> )	Other	<b>Normal room ventilation.</b>
Protective Gloves	<b>None required.</b>	Eye Protection	<b>None required.</b>
Other Protective Clothing or Equipment <b>None required.</b>			
Work/Hygienic Practices <b>Minimize exposure in accordance with good hygiene practices.</b>			

**We believe the statements, technical information and recommendations herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use.**