

# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

October 05, 2011

Brian Dodek  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: PDC - Dechant 1-31A

Enclosed are the results of analyses for samples received by Summit Scientific on 09/27/11 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury  
President / Laboratory Director



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

Project: PDC - Dechant 1-31A

Project Number: PDC 09028  
Project Manager: Brian Dodek

**Reported:**  
10/05/11 09:00

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW07	R109163-01	Water	09/26/11 11:30	09/27/11 17:00
MW09	R109163-02	Water	09/26/11 11:15	09/27/11 17:00
MW10	R109163-03	Water	09/26/11 10:45	09/27/11 17:00
MW12	R109163-04	Water	09/26/11 10:30	09/27/11 17:00
MW13	R109163-05	Water	09/26/11 11:05	09/27/11 17:00
MW14	R109163-06	Water	09/26/11 10:20	09/27/11 17:00

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

Project: PDC - Dechant 1-31A

Project Number: PDC 09028  
Project Manager: Brian Dodek

Reported:  
10/05/11 09:00

R109163

# Summit Scientific

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

Client: LT Environmental, Inc. Page 1 of 1  
Address: 4600 West 60th Avenue Project Manager: Brian Dodek  
City/State/Zip: Arvada, CO 80003 E-Mail: [bdodek@ltenv.com](mailto:bdodek@ltenv.com)  
Phone: (303) 433-9788 Project Name: Dechant 1-31A  
Sampler Name: Debra Girth Project Number: PDC

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)	DRO	GBTEX	BTEX	PH / EC	SAR	Table 910.1 metals																		
MW07	9-28-11	1130	3	X				X																											
MW09	1115																																		
MW10	1045																																		
MW13	1030																																		
MW14	1050																																		
Relinquished by:	Date/Time: 9-28-11	1704																																	
Relinquished by:	Date/Time:																																		
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Project: PDC - Dechant 1-31A

Project Number: PDC 09028  
 Project Manager: Brian Dodek

**Reported:**  
 10/05/11 09:00

**MW07**  
**R109163-01 (Water)**

**Summit Scientific**

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

Date Sampled: **09/26/11 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1092907	09/29/11	10/01/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/26/11 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>110 %</i>	<i>57.9-139</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>91.1 %</i>	<i>83.1-115</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>99.5 %</i>	<i>80.8-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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Project: PDC - Dechant 1-31A

Project Number: PDC 09028  
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**Reported:**  
 10/05/11 09:00

**MW09**  
**R109163-02 (Water)**

**Summit Scientific**

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

Date Sampled: **09/26/11 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1092907	09/29/11	10/01/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/26/11 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>110 %</i>	<i>57.9-139</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>95.0 %</i>	<i>83.1-115</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>101 %</i>	<i>80.8-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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Project: PDC - Dechant 1-31A

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**Reported:**  
 10/05/11 09:00

**MW10**  
**R109163-03 (Water)**

**Summit Scientific**

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

Date Sampled: **09/26/11 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>4.3</b>	1.0	ug/l	1	1092907	09/29/11	10/01/11	EPA 8260B	
<b>Toluene</b>	<b>5.2</b>	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>220</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>3100</b>	100	"	100	"	"	10/01/11	"	

Date Sampled: **09/26/11 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		112 %	57.9-139		"	"	10/01/11	"	
<i>Surrogate: Toluene-d8</i>		95.3 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		82.9 %	80.8-120		"	"	"	"	

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Project: PDC - Dechant 1-31A

Project Number: PDC 09028  
 Project Manager: Brian Dodek

**Reported:**  
 10/05/11 09:00

**MW12**  
**R109163-04 (Water)**

**Summit Scientific**

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

Date Sampled: **09/26/11 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1092907	09/29/11	10/01/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/26/11 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>111 %</i>	<i>57.9-139</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>92.7 %</i>	<i>83.1-115</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>98.5 %</i>	<i>80.8-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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Project: PDC - Dechant 1-31A

Project Number: PDC 09028  
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**Reported:**  
 10/05/11 09:00

**MW13**  
**R109163-05 (Water)**

**Summit Scientific**

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

Date Sampled: **09/26/11 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>2.1</b>	1.0	ug/l	1	1092907	09/29/11	10/01/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>190</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>2.3</b>	1.0	"	"	"	"	"	"	

Date Sampled: **09/26/11 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		91.6 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		83.8 %	80.8-120		"	"	"	"	

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**Reported:**  
 10/05/11 09:00

**MW14**  
**R109163-06 (Water)**

**Summit Scientific**

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

Date Sampled: **09/26/11 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>2.8</b>	1.0	ug/l	1	1092907	09/29/11	10/01/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>150</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>3.0</b>	1.0	"	"	"	"	"	"	

Date Sampled: **09/26/11 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96.5 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		83.3 %	80.8-120		"	"	"	"	

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Project Number: PDC 09028  
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**Reported:**  
10/05/11 09:00

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

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

**Batch 1092907 - EPA 5030 Water MS**

**Blank (1092907-BLK1)**

Prepared: 09/29/11 Analyzed: 09/30/11

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	1.0	"								
Surrogate: 1,2-Dichloroethane-d4	15.0		"	13.3		113	57.9-139				
Surrogate: Toluene-d8	12.6		"	13.3		94.7	83.1-115				
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.5	80.8-120				

**LCS (1092907-BS1)**

Prepared: 09/29/11 Analyzed: 09/30/11

Benzene	35.2	1.0	ug/l	33.3		106	60.1-131		10.9		
Toluene	35.8	1.0	"	33.3		107	65.9-127		11.3		
Ethylbenzene	38.1	1.0	"	33.3		114	65.1-129		20		
m,p-Xylene	67.4	2.0	"	66.7		101	66.8-127		20		
o-Xylene	36.6	1.0	"	33.3		110	61.2-120		20		
Surrogate: 1,2-Dichloroethane-d4	15.5		"	13.3		116	57.9-139				
Surrogate: Toluene-d8	13.2		"	13.3		98.8	83.1-115				
Surrogate: 4-Bromofluorobenzene	12.5		"	13.3		94.0	80.8-120				

**LCS Dup (1092907-BSD1)**

Prepared: 09/29/11 Analyzed: 09/30/11

Benzene	34.5	1.0	ug/l	33.3		103	60.1-131	2.18	10.9		
Toluene	34.3	1.0	"	33.3		103	65.9-127	4.22	11.3		
Ethylbenzene	38.2	1.0	"	33.3		115	65.1-129	0.420	20		
m,p-Xylene	65.3	2.0	"	66.7		97.9	66.8-127	3.20	20		
o-Xylene	36.5	1.0	"	33.3		109	61.2-120	0.438	20		
Surrogate: 1,2-Dichloroethane-d4	15.0		"	13.3		113	57.9-139				
Surrogate: Toluene-d8	12.7		"	13.3		95.5	83.1-115				
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		95.9	80.8-120				

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**Reported:**  
10/05/11 09:00

**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 1092907 - EPA 5030 Water MS**

<b>Matrix Spike (1092907-MS1)</b>	<b>Source: R109161-02</b>			Prepared: 09/29/11		Analyzed: 09/30/11				
Benzene	33.7	1.0	ug/l	33.3	ND	101	52.7-130	1.47	19.3	
Toluene	34.7	1.0	"	33.3	ND	104	57-127	3.96	18.7	
Ethylbenzene	37.0	1.0	"	33.3	ND	111	59.2-127	1.53	20	
m,p-Xylene	66.9	2.0	"	66.7	ND	100	53.2-132	0.901	20	
o-Xylene	36.9	1.0	"	33.3	ND	111	56.3-117	3.86	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>15.7</i>		<i>"</i>	<i>13.3</i>		<i>118</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.2</i>		<i>"</i>	<i>13.3</i>		<i>98.7</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.0</i>		<i>"</i>	<i>13.3</i>		<i>89.9</i>	<i>80.8-120</i>			

<b>Matrix Spike Dup (1092907-MSD1)</b>	<b>Source: R109161-02</b>			Prepared: 09/29/11		Analyzed: 09/30/11				
Benzene	33.2	1.0	ug/l	33.3	ND	99.5	52.7-130	1.47	19.3	
Toluene	33.4	1.0	"	33.3	ND	100	57-127	3.96	18.7	
Ethylbenzene	37.6	1.0	"	33.3	ND	113	59.2-127	1.53	20	
m,p-Xylene	66.3	2.0	"	66.7	ND	99.4	53.2-132	0.901	20	
o-Xylene	35.5	1.0	"	33.3	ND	107	56.3-117	3.86	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.8</i>		<i>"</i>	<i>13.3</i>		<i>111</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.1</i>		<i>"</i>	<i>13.3</i>		<i>98.0</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.0</i>		<i>"</i>	<i>13.3</i>		<i>90.2</i>	<i>80.8-120</i>			

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Project: PDC - Dechant 1-31A

Project Number: PDC 09028  
Project Manager: Brian Dodek

**Reported:**  
10/05/11 09:00

### 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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