

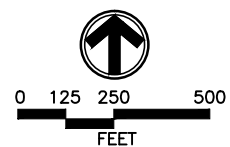


# LEGEND

-  TANK BATTERY
-  WELL LOCATION

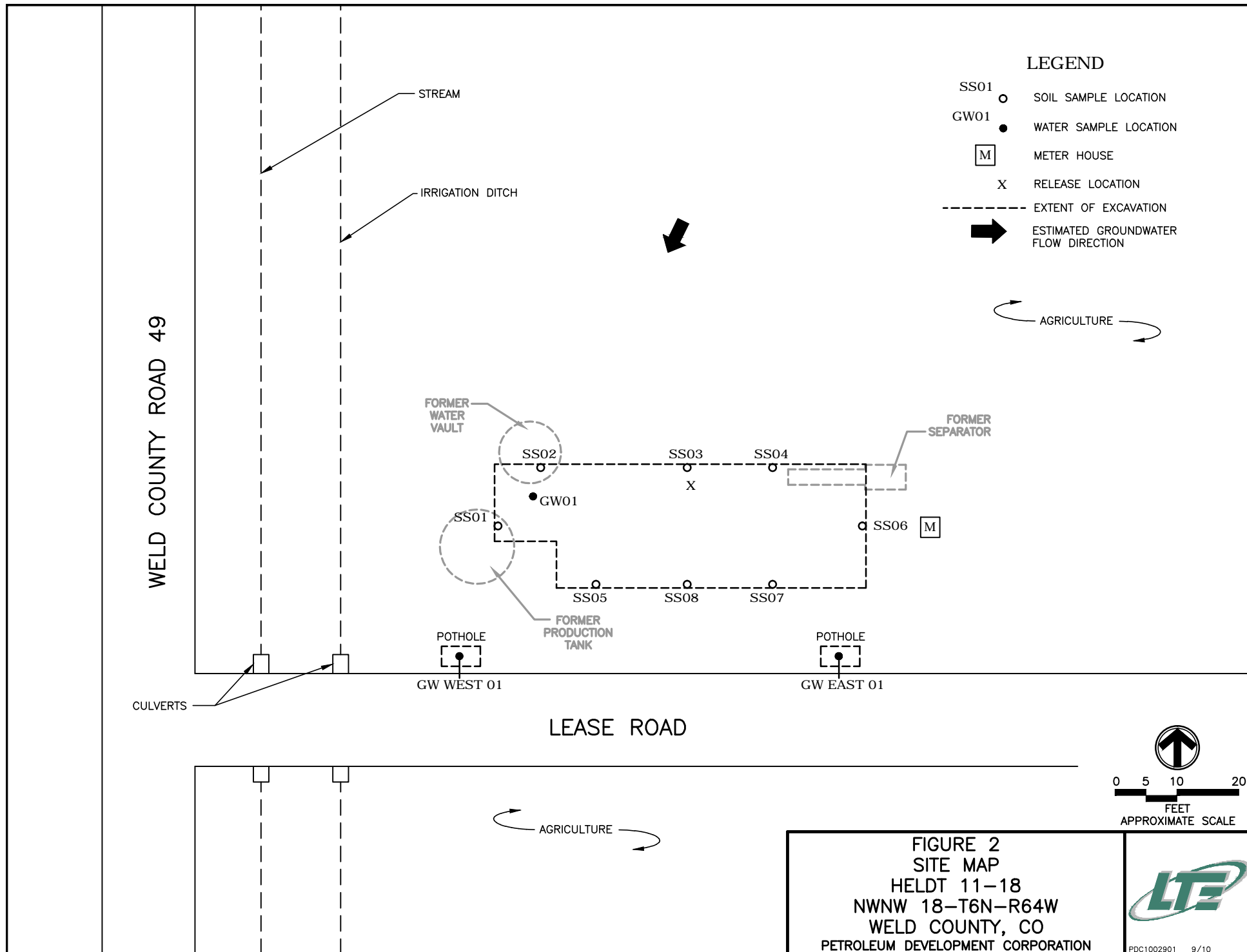


SOURCE: TOPOZONE.COM  
USGS 7.5' QUADRANGLE  
(NAD27)

FIGURE 1  
SITE LOCATION MAP  
HELDT 11-18  
NWNW 18-T6N-R64W  
WELD COUNTY, CO  
PETROLEUM DEVELOPMENT CORPORATION



PDC1002901-SL



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**HELDT 11-18 (API No. 05-123-20466)**  
**WELD COUNTY, COLORADO**  
**PETROLEUM DEVELOPMENT CORPORATION**

Sample ID	Depth (ft bgs)	Date Sampled	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Xylenes (mg/kg)	Naph- thalene (mg/kg)	TPH (mg/kg)
SS01	5	09/08/2010	0.0062	<0.0050	<0.0050	<0.015	<0.0050	<50.5
SS02	5	09/09/2010	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<50.5
SS03	5	09/09/2010	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<50.5
SS04	5	09/10/2010	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<50.5
SS05	5	09/10/2010	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<50.5
SS06	5	09/13/2010	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<50.5
SS07	5	09/13/2010	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<50.5
SS08	5	09/13/2010	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<50.5
<b>Basic Standards for Soil</b>			<b>0.17</b>	<b>85</b>	<b>100</b>	<b>175</b>	<b>23</b>	<b>500</b>

Notes: < - less than stated laboratory reporting limit

TPH - Total Petroleum Hydrocarbons (C6-C28)

API - American Petroleum Institute

Bold numbers indicate result equalled or exceeded standard.

Basic Standards for Soil are taken from 2 CCR 404-1, Table 910-1, effective April 1, 2009.

NA - Not Analyzed

mg/kg - milligrams per kilogram

ft bgs - feet below ground surface



**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS AND FIELD PARAMETERS**  
**HELDT 11-18 (API No. 123-20466)**  
**WELD COUNTY, COLORADO**  
**PETROLEUM DEVELOPMENT CORPORATION**

Sample ID	Date Sampled	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	Depth to Water (ft btoc)
GW01	09/13/2010	<b>100</b>	<1.0	<1.0	270	NM
	09/17/2010	<b>12000</b>	17	6.0	<b>18000</b>	NM
	09/30/2010	<b>88</b>	2.4	51	340	NM
	10/14/2010	<1.0	<1.0	<1.0	<1.0	NM
GWEast01	10/20/2010	<1.0	<1.0	<1.0	<1.0	NM
GWWest01	10/20/2010	<1.0	<1.0	<1.0	<1.0	NM
<b>Basic Standards for Groundwater:</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>	

Notes: < - less than  
ft btoc - feet below top of casing  
Basic Standards for Groundwater are taken from the Colorado Department of Health and Environment -  
Water Quality Control Commission Regulation 41, effective 4/1/2009.  
Bold numbers indicate result equaled or exceeded standard.

ug/L - micrograms per Liter  
NM - Not measured  
NA - Not Analyzed/Not Available  
API - American Petroleum Institute



# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

September 13, 2010

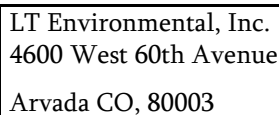
Brian Dodek  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: PDC - Heldt 11-18

Enclosed are the results of analyses for samples received by Summit Scientific on 09/08/10 17:00. 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 horizontal stroke.

Paul Shrewsbury For Ben Shrewsbury  
President / Laboratory Director



Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/13/10 09:25

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	R009059-01	Soil	09/08/10 12:10	09/08/10 17:00

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303-277-9310 ♦ 303-277-9531 Fax

Page 1 of 1

Client:	L.T Environmental, Inc.	Project Manager:	Brian Dolek
Address:	4600 West 60th Avenue	E-Mail:	bdolek@ltenv.com
City/State/Zip:	Arvada, CO 80003	Project Name:	44/AT 11-18
Phone:	(303) 433-9788	Fax:	(303) 433-1432
Sampler Name:	David Givvin	Project Number:	PDC 00249.05

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 #			
SS01	9-8-10	12:10	1		X				X		DBTEX / Neph Table 9.10 Full Table 9.10 Short PH / EC SAR		
Relinquished by:	Date/Time:	Received by:			Date/Time:	Turn Around Time (Check)			<input type="checkbox"/> Same Day <input checked="" type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input type="checkbox"/> 48 Hours				
Quinn Dutton	9-8-10	1500 MS			9-8-10	1700							
Relinquished by:	Date/Time:	Received by:			Date/Time:	Sample Integrity:			Temperature Upon Receipt: 5.0 Intact: Yes No				

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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 - Heldt 11-18

Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/13/10 09:25

**SS01**  
**R009059-01 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **09/08/10 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0090904	09/09/10	09/10/10	8015 DRO	

Date Sampled: **09/08/10 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		95.7 %	88.8-124		"	"	"	"	

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

Date Sampled: **09/08/10 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.0050	mg/kg	1	0090902	09/09/10	09/10/10	EPA 8260B	
<b>Benzene</b>	<b>0.0062</b>	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/08/10 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		95.2 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.6 %	78.4-125		"	"	"	"	

Summit Scientific

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

Project: PDC - Heldt 11-18  
Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/13/10 09:25

**Total 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 0090904 - EPA 3550A**

**Blank (0090904-BLK1)**

Prepared & Analyzed: 09/09/10

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 11.9 " 12.5 95.3 88.8-124

**LCS (0090904-BS1)**

Prepared & Analyzed: 09/09/10

C10-C28 (DRO) 505 50 mg/kg 81.4-129 9.26

**LCS Dup (0090904-BSD1)**

Prepared & Analyzed: 09/09/10

C10-C28 (DRO) 511 50 mg/kg 81.4-129 1.25 9.26

**Matrix Spike (0090904-MS1)**

Source: R009052-01

Prepared: 09/09/10 Analyzed: 09/10/10

C10-C28 (DRO) 501 50 mg/kg ND 77.8-133 8.48

**Matrix Spike Dup (0090904-MSD1)**

Source: R009052-01

Prepared: 09/09/10 Analyzed: 09/10/10

C10-C28 (DRO) 511 50 mg/kg ND 77.8-133 2.04 8.48

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

Project: PDC - Heldt 11-18  
Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/13/10 09:25

**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 0090902 - EPA 5030 Soil MS**

**Blank (0090902-BLK1)**

Prepared: 09/10/10 Analyzed: 09/11/10

Naphthalene	ND	0.0050	mg/kg							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
m,p-Xylene	ND	0.010	"							
o-Xylene	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0440		"	0.0400		110	67.4-143			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.5	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0400		96.4	78.4-125			

**LCS (0090902-BS1)**

Prepared: 09/10/10 Analyzed: 09/11/10

Naphthalene	ND	0.0050	mg/kg				67.8-151		20	
Benzene	0.0826	0.0050	"	0.100		82.6	61-139	1.98	11.1	
Toluene	0.0774	0.0050	"	0.100		77.4	64-132	3.09	10.9	
Ethylbenzene	0.0857	0.0050	"	0.100		85.7	68.7-135	1.59	20	
m,p-Xylene	0.158	0.010	"	0.200		79.1	70.4-129	0.991	20	
o-Xylene	0.0772	0.0050	"	0.100		77.2	66.9-126	0.0777	20	
Surrogate: 1,2-Dichloroethane-d4	0.0440		"	0.0400		110	67.4-143			
Surrogate: Toluene-d8	0.0401		"	0.0400		100	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0378		"	0.0400		94.5	78.4-125			

**LCS Dup (0090902-BSD1)**

Prepared: 09/10/10 Analyzed: 09/11/10

Naphthalene	ND	0.0050	mg/kg				67.8-151		20	
Benzene	0.0842	0.0050	"	0.100		84.2	61-139	1.98	11.1	
Toluene	0.0799	0.0050	"	0.100		79.9	64-132	3.09	10.9	
Ethylbenzene	0.0843	0.0050	"	0.100		84.3	68.7-135	1.59	20	
m,p-Xylene	0.157	0.010	"	0.200		78.3	70.4-129	0.991	20	
o-Xylene	0.0772	0.0050	"	0.100		77.2	66.9-126	0.0777	20	
Surrogate: 1,2-Dichloroethane-d4	0.0460		"	0.0400		115	67.4-143			
Surrogate: Toluene-d8	0.0408		"	0.0400		102	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0367		"	0.0400		91.7	78.4-125			

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

Project: PDC - Heldt 11-18

Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/13/10 09:25

**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 0090902 - EPA 5030 Soil MS**

Matrix Spike (0090902-MS1)		Source: R009073-01			Prepared: 09/10/10		Analyzed: 09/11/10			
Naphthalene	ND	0.0050	mg/kg		0.00		26.4-144		20	
Benzene	0.0833	0.0050	"	0.100	0.00	83.3	42.9-137		17.9	
Toluene	0.0787	0.0050	"	0.100	0.00	78.7	42.6-130		11.9	
Ethylbenzene	0.0792	0.0050	"	0.100	0.00	79.2	39-133		20	
m,p-Xylene	0.146	0.010	"	0.200	0.00	73.1	34.7-134		20	
o-Xylene	0.0744	0.0050	"	0.100	0.00	74.4	41.3-126		20	
Surrogate: 1,2-Dichloroethane-d4	0.0546		"	0.0400		137	67.4-143			
Surrogate: Toluene-d8	0.0413		"	0.0400		103	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	78.4-125			

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

Project: PDC - Heldt 11-18

Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/13/10 09:25

### 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

A handwritten signature in black ink, appearing to be 'JD' or similar, with a long horizontal stroke extending to the right.

*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 14, 2010

Brian Dodek  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: PDC - Heldt 11-18

Enclosed are the results of analyses for samples received by Summit Scientific on 09/09/10 17:00. 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 horizontal stroke.

Paul Shrewsbury For Ben Shrewsbury  
President / Laboratory Director



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

Project: PDC - Heldt 11-18

Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/14/10 15:39

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS02	R009066-01	Soil	09/09/10 11:15	09/09/10 17:00
SS03	R009066-02	Soil	09/09/10 11:20	09/09/10 17:00

Summit Scientific

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

Project: PDC - Heldt 11-18

Project Number: PDC 10029.5

Project Manager: Brian Dodek

**Reported:**

09/14/10 15:39

Summit Scientific  
R0090666

5

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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

Sampler Name: Devin Davis

Sampler Name: Devin Girtin

Project Manager: Brian Dodek

E-Mail: [bdodek@ltenv.com](mailto:bdodek@ltenv.com)

Project Name: Helix 11-18

Project Number: PDC10029.05

Project Number: PDC10029.05

			Preservative						Matrix			Analyze For:							
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	DRO	GBTEX / Map	BTEX	Table 9.10 Full	Table 9.10 Short	PH / EC	SAR	Special Instructions
				SS02	9-9-10	1115	1			X			X			X	X		
SS03	↓	1120	1			X			X			X	X						
Relinquished by: Quinn & Horton	Date/Time: 9-9-10	1700	1700	Received by: [Signature]	Date/Time: 9-9-10	1700	Received by: [Signature]	Date/Time: 9-9-10	1700	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 Hours <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input type="checkbox"/> 48 Hours <input type="checkbox"/>	Notes:								
Relinquished by:	Date/Time:			Received in Lab by:	Date/Time:		Sample Integrity: Temperature Upset: <input checked="" type="checkbox"/> No Intact: Yes <input checked="" type="checkbox"/> No												
Relinquished by:	Date/Time:			Received in Lab by:	Date/Time:														

0-11-0

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 - Heldt 11-18

Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/14/10 15:39

**SS02**  
**R009066-01 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **09/09/10 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0091306	09/13/10	09/14/10	8015 DRO	

Date Sampled: **09/09/10 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		106 %	88.8-124		"	"	"	"	

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

Date Sampled: **09/09/10 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.0050	mg/kg	1	0091305	09/13/10	09/14/10	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/09/10 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		98.1 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.9 %	78.4-125		"	"	"	"	

Summit Scientific

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

Project: PDC - Heldt 11-18

Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/14/10 15:39

**SS03**  
**R009066-02 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0091306	09/13/10	09/14/10	8015 DRO	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		102 %	88.8-124		"	"	"	"	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.0050	mg/kg	1	0091305	09/13/10	09/14/10	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		113 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		99.0 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	78.4-125		"	"	"	"	

Summit Scientific

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

Project: PDC - Heldt 11-18  
Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/14/10 15:39

**Total 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 0091306 - EPA 3550A**

**Blank (0091306-BLK1)**

Prepared: 09/13/10 Analyzed: 09/14/10

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 13.5 " 12.5 108 88.8-124

**LCS (0091306-BS1)**

Prepared & Analyzed: 09/13/10

C10-C28 (DRO) 550 50 mg/kg 81.4-129 9.26

**LCS Dup (0091306-BSD1)**

Prepared: 09/13/10 Analyzed: 09/14/10

C10-C28 (DRO) 552 50 mg/kg 81.4-129 0.384 9.26

**Matrix Spike (0091306-MS1)**

Source: R009094-01

Prepared: 09/13/10 Analyzed: 09/14/10

C10-C28 (DRO) 518 50 mg/kg ND 77.8-133 8.48

**Matrix Spike Dup (0091306-MSD1)**

Source: R009094-01

Prepared: 09/13/10 Analyzed: 09/14/10

C10-C28 (DRO) 548 50 mg/kg ND 77.8-133 5.46 8.48

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 - Heldt 11-18  
Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/14/10 15:39

**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 0091305 - EPA 5030 Soil MS**

**Blank (0091305-BLK1)**

Prepared & Analyzed: 09/13/10

Naphthalene	ND	0.0050	mg/kg							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
m,p-Xylene	ND	0.010	"							
o-Xylene	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0411</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>67.4-143</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0388</i>		<i>"</i>	<i>0.0400</i>		<i>96.9</i>	<i>77.3-114</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.4</i>	<i>78.4-125</i>			

**LCS (0091305-BS1)**

Prepared & Analyzed: 09/13/10

Naphthalene	ND	0.0050	mg/kg				67.8-151		20	
Benzene	0.0785	0.0050	"	0.100		78.5	61-139		11.1	
Toluene	0.0739	0.0050	"	0.100		73.9	64-132		10.9	
Ethylbenzene	0.0778	0.0050	"	0.100		77.8	68.7-135		20	
m,p-Xylene	0.158	0.010	"	0.200		78.8	70.4-129		20	
o-Xylene	0.0767	0.0050	"	0.100		76.7	66.9-126		20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0465</i>		<i>"</i>	<i>0.0400</i>		<i>116</i>	<i>67.4-143</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0413</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>77.3-114</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0399</i>		<i>"</i>	<i>0.0400</i>		<i>99.8</i>	<i>78.4-125</i>			

**LCS Dup (0091305-BSD1)**

Prepared & Analyzed: 09/13/10

Naphthalene	ND	0.0050	mg/kg				67.8-151		20	
Benzene	0.0813	0.0050	"	0.100		81.3	61-139	3.49	11.1	
Toluene	0.0764	0.0050	"	0.100		76.4	64-132	3.35	10.9	
Ethylbenzene	0.0816	0.0050	"	0.100		81.6	68.7-135	4.78	20	
m,p-Xylene	0.167	0.010	"	0.200		83.3	70.4-129	5.59	20	
o-Xylene	0.0799	0.0050	"	0.100		79.9	66.9-126	3.98	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0446</i>		<i>"</i>	<i>0.0400</i>		<i>111</i>	<i>67.4-143</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0409</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>77.3-114</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0390</i>		<i>"</i>	<i>0.0400</i>		<i>97.5</i>	<i>78.4-125</i>			

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 - Heldt 11-18  
Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/14/10 15:39

**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 0091305 - EPA 5030 Soil MS**

**Matrix Spike (0091305-MS1)**

**Source: R009094-01**

Prepared: 09/13/10 Analyzed: 09/14/10

Naphthalene	ND	0.0050	mg/kg		0.0113		26.4-144		20	
Benzene	0.0760	0.0050	"	0.100	0.00	76.0	42.9-137		17.9	
Toluene	0.0718	0.0050	"	0.100	0.00	71.8	42.6-130		11.9	
Ethylbenzene	0.0756	0.0050	"	0.100	0.00	75.6	39-133		20	
m,p-Xylene	0.153	0.010	"	0.200	0.00	76.3	34.7-134		20	
o-Xylene	0.0744	0.0050	"	0.100	0.00	74.4	41.3-126		20	
Surrogate: 1,2-Dichloroethane-d4	0.0459		"	0.0400		115	67.4-143			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.4	78.4-125			

**Matrix Spike Dup (0091305-MSD1)**

**Source: R009094-01**

Prepared: 09/13/10 Analyzed: 09/14/10

Naphthalene	ND	0.0050	mg/kg		0.0113		26.4-144		20	
Benzene	0.0793	0.0050	"	0.100	0.00	79.3	42.9-137	4.25	17.9	
Toluene	0.0746	0.0050	"	0.100	0.00	74.6	42.6-130	3.73	11.9	
Ethylbenzene	0.0782	0.0050	"	0.100	0.00	78.2	39-133	3.39	20	
m,p-Xylene	0.158	0.010	"	0.200	0.00	79.1	34.7-134	3.67	20	
o-Xylene	0.0770	0.0050	"	0.100	0.00	77.0	41.3-126	3.41	20	
Surrogate: 1,2-Dichloroethane-d4	0.0504		"	0.0400		126	67.4-143			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.8	78.4-125			

Summit Scientific

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

Project: PDC - Heldt 11-18

Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/14/10 15:39

### 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

A handwritten signature in black ink, appearing to be 'JD' or similar, with a long horizontal stroke extending to the right.

*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 14, 2010

Brian Dodek  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: PDC - Heldt 11-18

Enclosed are the results of analyses for samples received by Summit Scientific on 09/10/10 16:30. 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', with a long horizontal flourish extending to the right.

Paul Shrewsbury For Ben Shrewsbury  
President / Laboratory Director



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

Project: PDC - Heldt 11-18

Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/14/10 15:40

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS04	R009084-01	Soil	09/10/10 12:25	09/10/10 16:30
SS05	R009084-02	Soil	09/10/10 12:30	09/10/10 16:30

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 - Heldt 11-18

Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/14/10 15:40

**SS04**  
**R009084-01 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **09/10/10 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0091306	09/13/10	09/14/10	8015 DRO	

Date Sampled: **09/10/10 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		107 %	88.8-124		"	"	"	"	

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

Date Sampled: **09/10/10 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.0050	mg/kg	1	0091305	09/13/10	09/14/10	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/10/10 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		99.2 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.5 %	78.4-125		"	"	"	"	

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 - Heldt 11-18

Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/14/10 15:40

**SS05**  
**R009084-02 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **09/10/10 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0091306	09/13/10	09/14/10	8015 DRO	

Date Sampled: **09/10/10 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		106 %	88.8-124		"	"	"	"	

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

Date Sampled: **09/10/10 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.0050	mg/kg	1	0091305	09/13/10	09/14/10	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/10/10 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		111 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		97.6 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.8 %	78.4-125		"	"	"	"	

Summit Scientific

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

Project: PDC - Heldt 11-18  
Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/14/10 15:40

**Total 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 0091306 - EPA 3550A**

**Blank (0091306-BLK1)**

Prepared: 09/13/10 Analyzed: 09/14/10

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 13.5 " 12.5 108 88.8-124

**LCS (0091306-BS1)**

Prepared & Analyzed: 09/13/10

C10-C28 (DRO) 550 50 mg/kg 81.4-129 9.26

**LCS Dup (0091306-BSD1)**

Prepared: 09/13/10 Analyzed: 09/14/10

C10-C28 (DRO) 552 50 mg/kg 81.4-129 0.384 9.26

**Matrix Spike (0091306-MS1)**

Source: R009094-01

Prepared: 09/13/10 Analyzed: 09/14/10

C10-C28 (DRO) 518 50 mg/kg ND 77.8-133 8.48

**Matrix Spike Dup (0091306-MSD1)**

Source: R009094-01

Prepared: 09/13/10 Analyzed: 09/14/10

C10-C28 (DRO) 548 50 mg/kg ND 77.8-133 5.46 8.48

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 - Heldt 11-18  
Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/14/10 15:40

**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 0091305 - EPA 5030 Soil MS**

**Blank (0091305-BLK1)**

Prepared & Analyzed: 09/13/10

Naphthalene	ND	0.0050	mg/kg							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
m,p-Xylene	ND	0.010	"							
o-Xylene	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0411		"	0.0400		103	67.4-143			
Surrogate: Toluene-d8	0.0388		"	0.0400		96.9	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.4	78.4-125			

**LCS (0091305-BS1)**

Prepared & Analyzed: 09/13/10

Naphthalene	ND	0.0050	mg/kg				67.8-151		20	
Benzene	0.0785	0.0050	"	0.100		78.5	61-139		11.1	
Toluene	0.0739	0.0050	"	0.100		73.9	64-132		10.9	
Ethylbenzene	0.0778	0.0050	"	0.100		77.8	68.7-135		20	
m,p-Xylene	0.158	0.010	"	0.200		78.8	70.4-129		20	
o-Xylene	0.0767	0.0050	"	0.100		76.7	66.9-126		20	
Surrogate: 1,2-Dichloroethane-d4	0.0465		"	0.0400		116	67.4-143			
Surrogate: Toluene-d8	0.0413		"	0.0400		103	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.8	78.4-125			

**LCS Dup (0091305-BSD1)**

Prepared & Analyzed: 09/13/10

Naphthalene	ND	0.0050	mg/kg				67.8-151		20	
Benzene	0.0813	0.0050	"	0.100		81.3	61-139	3.49	11.1	
Toluene	0.0764	0.0050	"	0.100		76.4	64-132	3.35	10.9	
Ethylbenzene	0.0816	0.0050	"	0.100		81.6	68.7-135	4.78	20	
m,p-Xylene	0.167	0.010	"	0.200		83.3	70.4-129	5.59	20	
o-Xylene	0.0799	0.0050	"	0.100		79.9	66.9-126	3.98	20	
Surrogate: 1,2-Dichloroethane-d4	0.0446		"	0.0400		111	67.4-143			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.5	78.4-125			

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 - Heldt 11-18  
Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/14/10 15:40

**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 0091305 - EPA 5030 Soil MS**

**Matrix Spike (0091305-MS1)**

**Source: R009094-01**

Prepared: 09/13/10 Analyzed: 09/14/10

Naphthalene	ND	0.0050	mg/kg		0.0113		26.4-144		20	
Benzene	0.0760	0.0050	"	0.100	0.00	76.0	42.9-137		17.9	
Toluene	0.0718	0.0050	"	0.100	0.00	71.8	42.6-130		11.9	
Ethylbenzene	0.0756	0.0050	"	0.100	0.00	75.6	39-133		20	
m,p-Xylene	0.153	0.010	"	0.200	0.00	76.3	34.7-134		20	
o-Xylene	0.0744	0.0050	"	0.100	0.00	74.4	41.3-126		20	
Surrogate: 1,2-Dichloroethane-d4	0.0459		"	0.0400		115	67.4-143			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.4	78.4-125			

**Matrix Spike Dup (0091305-MSD1)**

**Source: R009094-01**

Prepared: 09/13/10 Analyzed: 09/14/10

Naphthalene	ND	0.0050	mg/kg		0.0113		26.4-144		20	
Benzene	0.0793	0.0050	"	0.100	0.00	79.3	42.9-137	4.25	17.9	
Toluene	0.0746	0.0050	"	0.100	0.00	74.6	42.6-130	3.73	11.9	
Ethylbenzene	0.0782	0.0050	"	0.100	0.00	78.2	39-133	3.39	20	
m,p-Xylene	0.158	0.010	"	0.200	0.00	79.1	34.7-134	3.67	20	
o-Xylene	0.0770	0.0050	"	0.100	0.00	77.0	41.3-126	3.41	20	
Surrogate: 1,2-Dichloroethane-d4	0.0504		"	0.0400		126	67.4-143			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.8	78.4-125			

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 - Heldt 11-18

Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/14/10 15:40

### 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

A handwritten signature in black ink, appearing to be 'JD' or similar, with a long horizontal stroke extending to the right.

*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 17, 2010

Brian Dodek  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: PDC - Heldt 11-18

Enclosed are the results of analyses for samples received by Summit Scientific on 09/13/10 17:00. 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 horizontal stroke.

Paul Shrewsbury For Ben Shrewsbury  
President / Laboratory Director



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

Project: PDC - Heldt 11-18

Project Number: PDC 10029.5  
Project Manager: Brian Dodek

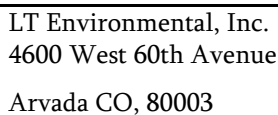
**Reported:**  
09/17/10 14:35

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS06	R009095-01	Soil	09/13/10 11:05	09/13/10 17:00
SS07	R009095-02	Soil	09/13/10 11:10	09/13/10 17:00
SS08	R009095-03	Soil	09/13/10 11:15	09/13/10 17:00
GW01	R009095-04	Water	09/13/10 13:20	09/13/10 17:00

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Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/17/10 14:35

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

Client:	L.T Environmental, Inc.
Address:	4600 West 60th Avenue
City/State/Zip:	Arvada, CO 80003
Phone:	(303) 433-9788
Fax:	(303) 433-1432
Project Name:	Heidt 11-18
E-Mail:	bdoodek@ltenv.com
Project Manager:	Brian Dodek
Sampler Name:	Devin Givtha
Project Number:	PD10029.05

Page 5 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)	DBTEX	Table 9.10 Full	Table 9.10 Short	pH / EC	SAR	
5506	9-13-10	1105	1			X				X							
5507		1110	1			X				X							
5508		1115	1			X				X							
GW01		1320	3	X				X									
Relinquished by:	Date/Time:	Received by: <i>BS</i> 9-13-10 1700				Date/Time:	Turn Around Time (Check)				Notes:						
Relinquished by:	Date/Time:	Received by:				Date/Time:	Same Day <input type="checkbox"/> 72 Hours <input checked="" type="checkbox"/> Standard				Run GW01 on 24 hour turn						
Relinquished by:	Date/Time:	Received in Lab by:				Date/Time:	Sample Integrity: Temperature <input checked="" type="checkbox"/> In tact: <input checked="" type="checkbox"/> Receipt: <i>S.A.</i>										

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

Project: PDC - Heldt 11-18

Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/17/10 14:35

**SS06**  
**R009095-01 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **09/13/10 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0091406	09/14/10	09/15/10	8015 DRO	

Date Sampled: **09/13/10 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		95.8 %	88.8-124		"	"	"	"	

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

Date Sampled: **09/13/10 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.0050	mg/kg	1	0091505	09/15/10	09/17/10	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/13/10 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		101 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	78.4-125		"	"	"	"	

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

Project: PDC - Heldt 11-18

Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/17/10 14:35

**SS07**  
**R009095-02 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **09/13/10 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0091406	09/14/10	09/15/10	8015 DRO	

Date Sampled: **09/13/10 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		94.5 %	88.8-124		"	"	"	"	

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

Date Sampled: **09/13/10 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.0050	mg/kg	1	0091505	09/15/10	09/17/10	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/13/10 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.2 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		99.7 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.5 %	78.4-125		"	"	"	"	

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

Project: PDC - Heldt 11-18

Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/17/10 14:35

**SS08**  
**R009095-03 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **09/13/10 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0091406	09/14/10	09/15/10	8015 DRO	

Date Sampled: **09/13/10 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		102 %	88.8-124		"	"	"	"	

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

Date Sampled: **09/13/10 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.0050	mg/kg	1	0091505	09/15/10	09/17/10	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/13/10 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		102 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	78.4-125		"	"	"	"	

Summit Scientific

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

Project: PDC - Heldt 11-18

Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/17/10 14:35

**GW01**  
**R009095-04 (Water)**

**Summit Scientific**

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

Date Sampled: **09/13/10 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Benzene</b>	<b>100</b>	1.0		ug/l	1	0091401	09/14/10	09/14/10	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>270</b>	1.0		"	"	"	"	"	"	

Date Sampled: **09/13/10 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		115 %		57.9-139		"	"	"	"	
Surrogate: Toluene-d8		101 %		83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.0 %		80.8-120		"	"	"	"	

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

Project: PDC - Heldt 11-18  
Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/17/10 14:35

**Total 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 0091406 - EPA 3550A**

**Blank (0091406-BLK1)**

Prepared & Analyzed: 09/14/10

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 12.0 " 12.5 96.2 88.8-124

**LCS (0091406-BS1)**

Prepared & Analyzed: 09/14/10

C10-C28 (DRO) 495 50 mg/kg 81.4-129 9.26

**LCS Dup (0091406-BSD1)**

Prepared & Analyzed: 09/14/10

C10-C28 (DRO) 514 50 mg/kg 81.4-129 3.68 9.26

**Matrix Spike (0091406-MS1)**

Source: R009103-01

Prepared & Analyzed: 09/14/10

C10-C28 (DRO) 510 50 mg/kg ND 77.8-133 8.48

**Matrix Spike Dup (0091406-MSD1)**

Source: R009103-01

Prepared: 09/14/10 Analyzed: 09/15/10

C10-C28 (DRO) 519 50 mg/kg ND 77.8-133 1.75 8.48

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

Project: PDC - Heldt 11-18  
Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/17/10 14:35

**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 0091401 - EPA 5030 Water MS**

**Blank (0091401-BLK1)**

Prepared & Analyzed: 09/14/10

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	16.0		"	13.3		120	57.9-139			
Surrogate: Toluene-d8	12.5		"	13.3		93.9	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.5		"	13.3		94.1	80.8-120			

**LCS (0091401-BS1)**

Prepared & Analyzed: 09/14/10

Benzene	25.0	1.0	ug/l	33.3		74.9	60.1-131		10.9	
Toluene	23.8	1.0	"	33.3		71.5	65.9-127		11.3	
Ethylbenzene	34.9	1.0	"	33.3		105	65.1-129		20	
m,p-Xylene	67.7	2.0	"	66.7		102	66.8-127		20	
o-Xylene	31.0	1.0	"	33.3		93.0	61.2-120		20	
Surrogate: 1,2-Dichloroethane-d4	15.8		"	13.3		118	57.9-139			
Surrogate: Toluene-d8	12.2		"	13.3		91.4	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.3		"	13.3		92.0	80.8-120			

**LCS Dup (0091401-BSD1)**

Prepared & Analyzed: 09/14/10

Benzene	26.8	1.0	ug/l	33.3		80.5	60.1-131	7.18	10.9	
Toluene	26.3	1.0	"	33.3		79.0	65.9-127	9.97	11.3	
Ethylbenzene	36.2	1.0	"	33.3		109	65.1-129	3.65	20	
m,p-Xylene	71.3	2.0	"	66.7		107	66.8-127	5.14	20	
o-Xylene	31.7	1.0	"	33.3		95.1	61.2-120	2.26	20	
Surrogate: 1,2-Dichloroethane-d4	16.8		"	13.3		126	57.9-139			
Surrogate: Toluene-d8	12.8		"	13.3		96.3	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.2	80.8-120			

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

Project: PDC - Heldt 11-18  
Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/17/10 14:35

**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 0091505 - EPA 5030 Soil MS**

**Blank (0091505-BLK1)**

Prepared: 09/15/10 Analyzed: 09/17/10

Naphthalene	ND	0.0050	mg/kg							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
m,p-Xylene	ND	0.010	"							
o-Xylene	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0395		"	0.0400		98.8	67.4-143			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.8	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.8	78.4-125			

**LCS (0091505-BS1)**

Prepared: 09/15/10 Analyzed: 09/17/10

Naphthalene	0.148	0.0050	mg/kg	0.150		98.4	67.8-151		20	
Benzene	0.130	0.0050	"	0.150		86.5	61-139		11.1	
Toluene	0.126	0.0050	"	0.150		84.0	64-132		10.9	
Ethylbenzene	0.118	0.0050	"	0.150		78.4	68.7-135		20	
m,p-Xylene	0.246	0.010	"	0.300		81.9	70.4-129		20	
o-Xylene	0.125	0.0050	"	0.150		83.1	66.9-126		20	
Surrogate: 1,2-Dichloroethane-d4	0.0413		"	0.0400		103	67.4-143			
Surrogate: Toluene-d8	0.0408		"	0.0400		102	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.3	78.4-125			

**LCS Dup (0091505-BSD1)**

Prepared: 09/15/10 Analyzed: 09/17/10

Naphthalene	0.162	0.0050	mg/kg	0.150		108	67.8-151	9.26	20	
Benzene	0.131	0.0050	"	0.150		87.5	61-139	1.13	11.1	
Toluene	0.128	0.0050	"	0.150		85.0	64-132	1.23	10.9	
Ethylbenzene	0.120	0.0050	"	0.150		80.1	68.7-135	2.17	20	
m,p-Xylene	0.251	0.010	"	0.300		83.6	70.4-129	2.13	20	
o-Xylene	0.129	0.0050	"	0.150		85.8	66.9-126	3.24	20	
Surrogate: 1,2-Dichloroethane-d4	0.0404		"	0.0400		101	67.4-143			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.0	78.4-125			

Summit Scientific

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

Project: PDC - Heldt 11-18  
Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/17/10 14:35

**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 0091505 - EPA 5030 Soil MS**

Matrix Spike (0091505-MS1)		Source: R009095-01			Prepared: 09/15/10		Analyzed: 09/17/10			
Naphthalene	0.139	0.0050	mg/kg	0.150	0.00	93.0	26.4-144		20	
Benzene	0.122	0.0050	"	0.150	0.00	81.5	42.9-137		17.9	
Toluene	0.119	0.0050	"	0.150	0.00	79.4	42.6-130		11.9	
Ethylbenzene	0.110	0.0050	"	0.150	0.00	73.0	39-133		20	
m,p-Xylene	0.229	0.010	"	0.300	0.00	76.5	34.7-134		20	
o-Xylene	0.117	0.0050	"	0.150	0.00	78.3	41.3-126		20	
Surrogate: 1,2-Dichloroethane-d4	0.0429		"	0.0400		107	67.4-143			
Surrogate: Toluene-d8	0.0410		"	0.0400		102	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0413		"	0.0400		103	78.4-125			

Matrix Spike Dup (0091505-MSD1)		Source: R009095-01			Prepared: 09/15/10		Analyzed: 09/17/10			
Naphthalene	0.140	0.0050	mg/kg	0.150	0.00	93.2	26.4-144	0.279	20	
Benzene	0.118	0.0050	"	0.150	0.00	78.9	42.9-137	3.29	17.9	
Toluene	0.115	0.0050	"	0.150	0.00	76.6	42.6-130	3.61	11.9	
Ethylbenzene	0.108	0.0050	"	0.150	0.00	72.1	39-133	1.30	20	
m,p-Xylene	0.225	0.010	"	0.300	0.00	75.0	34.7-134	1.98	20	
o-Xylene	0.115	0.0050	"	0.150	0.00	76.8	41.3-126	1.94	20	
Surrogate: 1,2-Dichloroethane-d4	0.0412		"	0.0400		103	67.4-143			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		99.9	78.4-125			

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

Project: PDC - Heldt 11-18

Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/17/10 14:35

### 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

A handwritten signature in black ink, appearing to be 'JD' or similar, with a long horizontal stroke extending to the right.

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# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

September 19, 2010

Brian Dodek  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: PDC - Heldt 11-18

Enclosed are the results of analyses for samples received by Summit Scientific on 09/17/10 17:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to be 'LS' followed by a long horizontal stroke.

Logan Shrewsbury For Ben Shrewsbury  
President / Laboratory Director

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

Project: PDC - Heldt 11-18

Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/19/10 20:51

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW01	R009156-01	Water	09/17/10 16:05	09/17/10 17:30

Summit Scientific ~~2240~~ 224156

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

Page / of

Client: LT Environmental, Inc.

Address: 4600 West 60th Avenue

City/State/Zip: Arvada, CO 80003

Phone: (303) 433-9788

Sampler Name:

Project Manager:

E-Mail: [37](mailto:37)

Project Name: \_\_\_\_\_

Project Number: 4

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 #		
61001	9/17	1605	3	X				X				
Relinquished by:	Date/Time:	Received by:			Date/Time:	Turn Around Time (Check)			Notes:			
W. B. [Signature]	9/17 1730	J. B. [Signature]			9/17 1730	<input type="checkbox"/> Same Day <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours			Results Monday A.M.			
Relinquished by:	Date/Time:	Received by:			Date/Time:	Sample Integrity:			Temperature Upon Receipt:			
									Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Relinquished by:	Date/Time:	Received by:			Date/Time:							

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

Project: PDC - Heldt 11-18

Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/19/10 20:51

**GW01**  
**R009156-01 (Water)**

**Summit Scientific**

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

Date Sampled: **09/17/10 16:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>12000</b>	100	ug/l	100	0091801	09/18/10	09/18/10	EPA 8260B	
<b>Toluene</b>	<b>17</b>	1.0	"	1	"	"	09/18/10	"	
<b>Ethylbenzene</b>	<b>6.0</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>18000</b>	100	"	100	"	"	09/18/10	"	

Date Sampled: **09/17/10 16:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.7 %	57.9-139		"	"	09/18/10	"	
<i>Surrogate: Toluene-d8</i>		94.7 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		112 %	80.8-120		"	"	"	"	

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 - Heldt 11-18  
Project Number: PDC 10029.5  
Project Manager: Brian Dodek

Reported:  
09/19/10 20:51

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

### Summit Scientific

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

#### Batch 0091801 - EPA 5030 Water MS

##### Blank (0091801-BLK1)

Prepared & Analyzed: 09/18/10

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	14.6		"	13.3	110	57.9-139				
Surrogate: Toluene-d8	13.1		"	13.3	98.1	83.1-115				
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3	99.8	80.8-120				

##### LCS (0091801-BS1)

Prepared & Analyzed: 09/18/10

Benzene	27.8	1.0	ug/l	33.3	83.3	60.1-131			10.9	
Toluene	25.3	1.0	"	33.3	75.9	65.9-127			11.3	
Ethylbenzene	27.4	1.0	"	33.3	82.3	65.1-129			20	
m,p-Xylene	52.9	2.0	"	66.7	79.4	66.8-127			20	
o-Xylene	26.7	1.0	"	33.3	80.1	61.2-120			20	
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.3	103	57.9-139				
Surrogate: Toluene-d8	13.2		"	13.3	98.8	83.1-115				
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3	99.0	80.8-120				

##### LCS Dup (0091801-BSD1)

Prepared & Analyzed: 09/18/10

Benzene	24.1	1.0	ug/l	33.3	72.2	60.1-131	14.3		10.9	
Toluene	22.6	1.0	"	33.3	67.8	65.9-127	11.3		11.3	
Ethylbenzene	23.8	1.0	"	33.3	71.6	65.1-129	13.9		20	
m,p-Xylene	45.9	2.0	"	66.7	68.9	66.8-127	14.2		20	
o-Xylene	24.0	1.0	"	33.3	72.0	61.2-120	10.6		20	
Surrogate: 1,2-Dichloroethane-d4	14.2		"	13.3	106	57.9-139				
Surrogate: Toluene-d8	13.5		"	13.3	101	83.1-115				
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3	100	80.8-120				

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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 - Heldt 11-18

Project Number: PDC 10029.5  
Project Manager: Brian Dodek

**Reported:**  
09/19/10 20:51

### 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

A handwritten signature in black ink, appearing to be 'JD' or similar, with a long horizontal stroke extending to the right.

*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

October 01, 2010

Brian Dodek  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: PDC - Heldt 11-18

Enclosed are the results of analyses for samples received by Summit Scientific on 09/30/10 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 be 'BS' or 'Shrewsbury', written in a cursive style.

Ben Shrewsbury  
President / Laboratory Director

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

Project: PDC - Heldt 11-18

Project Number: PDC 10029  
Project Manager: Brian Dodek

**Reported:**  
10/01/10 08:43

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW01	R009240-01	Water	09/30/10 11:10	09/30/10 17:00

Summit Scientific 2009240

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

Page / of

Client: LT Environmental, Inc.

Address: 4600 West 60th Avenue

City/State/Zip: Arvada, CO 80003

phone: (303) 433-9788

Sample Name: 4

**Project Manager:** Brian Dodek

E-Mail: [bdodek@ltnv.com](mailto:bdodek@ltnv.com)Project Name: Holt + 11-18

Project Number: 0510029

Project Number: 142/0001

Sample Description	Preservative			Matrix			Analyze For:						Special Instructions						
	Date Sampled	Time Sampled	Number of Containers	HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	DRO		GBTEX	BTEX	Table 9.10 Full	Table 9.10 Short	PH / EC	SAR
60201	9/30	1116	3	X				X						X					
	Relinquished by: <i>Al</i>	Date/Time: 9/30	1705	Received by: <i>BB</i>	Date/Time: 9/30/10	1700	Turn Around Time (Check):	<input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours	<input type="checkbox"/> 72 Hours <input type="checkbox"/> Standard	Notes: <i>Am. Results</i>									
	Relinquished by: <i>Ch. My</i>	Date/Time: 9/30		Received by:	Date/Time:		Sample Integrity:	<input checked="" type="checkbox"/> Temperature Intact <input type="checkbox"/> Upon Receipt <input type="checkbox"/> No	<input checked="" type="checkbox"/> 5.0										
	Relinquished by:	Date/Time:		Received in Lab by:	Date/Time:														

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*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 - Heldt 11-18

Project Number: PDC 10029  
Project Manager: Brian Dodek

**Reported:**  
10/01/10 08:43

**GW01**  
**R009240-01 (Water)**

**Summit Scientific**

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

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Benzene</b>	<b>88</b>	1.0		ug/l	1	0093005	09/30/10	09/30/10	EPA 8260B	
<b>Toluene</b>	<b>2.4</b>	1.0		"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>51</b>	1.0		"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>340</b>	1.0		"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: 1,2-Dichloroethane-d4</i>		77.9 %		57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		105 %		83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		92.0 %		80.8-120		"	"	"	"	

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 - Heldt 11-18

Project Number: PDC 10029  
Project Manager: Brian Dodek

Reported:  
10/01/10 08:43

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

### Summit Scientific

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

#### Batch 0093005 - EPA 5030 Water MS

##### Blank (0093005-BLK1)

Prepared: 09/30/10 Analyzed: 10/01/10

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	12.2		"	13.3		91.4	57.9-139			
Surrogate: Toluene-d8	12.6		"	13.3		94.7	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.9	80.8-120			

##### LCS (0093005-BS1)

Prepared & Analyzed: 09/30/10

Benzene	31.2	1.0	ug/l	33.3		93.5	60.1-131		10.9	
Toluene	28.4	1.0	"	33.3		85.1	65.9-127		11.3	
Ethylbenzene	29.9	1.0	"	33.3		89.6	65.1-129		20	
m,p-Xylene	60.7	2.0	"	66.7		91.1	66.8-127		20	
o-Xylene	27.1	1.0	"	33.3		81.2	61.2-120		20	
Surrogate: 1,2-Dichloroethane-d4	12.7		"	13.3		95.1	57.9-139			
Surrogate: Toluene-d8	13.0		"	13.3		97.7	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.6	80.8-120			

##### LCS Dup (0093005-BSD1)

Prepared & Analyzed: 09/30/10

Benzene	30.6	1.0	ug/l	33.3		91.7	60.1-131	2.04	10.9	
Toluene	28.1	1.0	"	33.3		84.4	65.9-127	0.849	11.3	
Ethylbenzene	29.4	1.0	"	33.3		88.3	65.1-129	1.52	20	
m,p-Xylene	57.5	2.0	"	66.7		86.3	66.8-127	5.36	20	
o-Xylene	26.1	1.0	"	33.3		78.3	61.2-120	3.69	20	
Surrogate: 1,2-Dichloroethane-d4	12.6		"	13.3		94.7	57.9-139			
Surrogate: Toluene-d8	13.0		"	13.3		97.7	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.9	80.8-120			

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 - Heldt 11-18  
Project Number: PDC 10029  
Project Manager: Brian Dodek

Reported:  
10/01/10 08:43

**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 0093005 - EPA 5030 Water MS**

Matrix Spike (0093005-MS1)				Source: R009232-01		Prepared: 09/30/10		Analyzed: 10/01/10		
Benzene	29.6	1.0	ug/l	33.3	ND	88.7	52.7-130		19.3	
Toluene	27.3	1.0	"	33.3	ND	81.8	57-127		18.7	
Ethylbenzene	29.0	1.0	"	33.3	ND	86.9	59.2-127		20	
m,p-Xylene	53.9	2.0	"	66.7	1.18	79.1	53.2-132		20	
o-Xylene	25.6	1.0	"	33.3	ND	76.8	56.3-117		20	
Surrogate: 1,2-Dichloroethane-d4	12.8		"	13.3		96.4	57.9-139			
Surrogate: Toluene-d8	13.0		"	13.3		97.5	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.2	80.8-120			
Matrix Spike Dup (0093005-MSD1)				Source: R009232-01		Prepared: 09/30/10		Analyzed: 10/01/10		
Benzene	29.9	1.0	ug/l	33.3	ND	89.7	52.7-130	1.11	19.3	
Toluene	27.0	1.0	"	33.3	ND	80.9	57-127	1.03	18.7	
Ethylbenzene	28.2	1.0	"	33.3	ND	84.6	59.2-127	2.69	20	
m,p-Xylene	53.9	2.0	"	66.7	1.18	79.0	53.2-132	0.0186	20	
o-Xylene	24.7	1.0	"	33.3	ND	74.0	56.3-117	3.74	20	
Surrogate: 1,2-Dichloroethane-d4	12.8		"	13.3		95.8	57.9-139			
Surrogate: Toluene-d8	12.9		"	13.3		97.1	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		97.0	80.8-120			

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 - Heldt 11-18

Project Number: PDC 10029  
Project Manager: Brian Dodek

**Reported:**  
10/01/10 08:43

### 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

A handwritten signature in black ink, appearing to be 'JMM'.

# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

October 15, 2010

Brian Dodek  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: PDC - Heldt 11-18

Enclosed are the results of analyses for samples received by Summit Scientific on 10/14/10 17:00. 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 horizontal stroke.

Paul Shrewsbury For Ben Shrewsbury  
President / Laboratory Director

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

Project: PDC - Heldt 11-18

Project Number: PDC 10029.05  
Project Manager: Brian Dodek

**Reported:**  
10/15/10 07:46

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW01	R010089-01	Water	10/14/10 14:25	10/14/10 17:00

Summit Scientific 2510089

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

Page / of /

Client: LT Environmental, Inc.

Address: 4600 West 60th Avenue

City/State/Zip: Arvada, CO 80003

City/State/Zip: Alva, CO 80002  
Phone: (303) 433-9788

Phone: (303) 433-9788

Sampler Name: Devia G/V

**Project Manager:** Brian Dodek

E-Mail: [bdodek@ltern](mailto:bdodek@ltern)Project Name: Uc/d + 11-18

Project Name: Helix 17-18  
Project Number: PTC10020

Project Number: FDC100094.0

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)	DRO	GBTEX	BTEX	Table 9.10 Full	Table 9.10 Short	
GW61	10-14-10	1425	3	X				X									
Relinquished by: <i>John Schulte</i>	Date/Time: <i>10-14-10</i>	Received by: <i>10-15-10</i>				Date/Time: <i>1720</i>		Turn Around Time (Check) <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/> Standard						Notes:			
Relinquished by:	Date/Time:	Received by:				Date/Time:		Sample Integrity: Temperature Upon Receipt: <i>5.0</i> Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									
Relinquished by:	Date/Time:	Received in Lab by:				Date/Time:											

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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 - Heldt 11-18

Project Number: PDC 10029.05  
Project Manager: Brian Dodek

**Reported:**  
10/15/10 07:46

**GW01**  
**R010089-01 (Water)**

**Summit Scientific**

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

Date Sampled: 10/14/10 14:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	0101410	10/14/10	10/15/10	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 10/14/10 14:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		95.2 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	80.8-120		"	"	"	"	

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 - Heldt 11-18  
Project Number: PDC 10029.05  
Project Manager: Brian Dodek

**Reported:**  
10/15/10 07:46

## 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 0101410 - EPA 5030 Water MS

##### Blank (0101410-BLK1)

Prepared: 10/14/10 Analyzed: 10/15/10

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	12.7		"	13.3		95.2	57.9-139			
Surrogate: Toluene-d8	12.5		"	13.3		94.1	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.1	80.8-120			

##### LCS (0101410-BS1)

Prepared & Analyzed: 10/14/10

Benzene	27.7	1.0	ug/l	33.3		83.2	60.1-131		10.9	
Toluene	24.9	1.0	"	33.3		74.6	65.9-127		11.3	
Ethylbenzene	29.3	1.0	"	33.3		88.0	65.1-129		20	
m,p-Xylene	53.4	2.0	"	66.7		80.1	66.8-127		20	
o-Xylene	26.0	1.0	"	33.3		78.0	61.2-120		20	
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.3		101	57.9-139			
Surrogate: Toluene-d8	12.8		"	13.3		95.7	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.6	80.8-120			

##### LCS Dup (0101410-BSD1)

Prepared: 10/14/10 Analyzed: 10/15/10

Benzene	30.7	1.0	ug/l	33.3		92.2	60.1-131	10.2	10.9	
Toluene	27.3	1.0	"	33.3		82.0	65.9-127	9.47	11.3	
Ethylbenzene	32.6	1.0	"	33.3		98.0	65.1-129	10.7	20	
m,p-Xylene	59.2	2.0	"	66.7		88.9	66.8-127	10.3	20	
o-Xylene	28.4	1.0	"	33.3		85.1	61.2-120	8.68	20	
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.3		101	57.9-139			
Surrogate: Toluene-d8	12.8		"	13.3		95.8	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.4	80.8-120			

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 - Heldt 11-18

Project Number: PDC 10029.05  
Project Manager: Brian Dodek

**Reported:**  
10/15/10 07:46

### 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

---

Summit Scientific

A handwritten signature in black ink, appearing to be 'JD' or similar, with a long horizontal stroke extending to the right.

*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

October 25, 2010

Brian Dodek  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: PDC - Heldt 11-18

Enclosed are the results of analyses for samples received by Summit Scientific on 10/20/10 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to be 'LS' followed by a long horizontal stroke.

Logan Shrewsbury For Ben Shrewsbury  
President / Laboratory Director



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

Project: PDC - Heldt 11-18

Project Number: PDC 10029  
Project Manager: Brian Dodek

**Reported:**  
10/25/10 15:18

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GWWest01	R010135-01	Water	10/20/10 00:00	10/20/10 17:00
GWEast01	R010135-02	Water	10/20/10 00:00	10/20/10 17:00

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

Project: PDC - Heldt 11-18

Project Number: PDC 10029  
Project Manager: Brian Dodek

**Reported:**  
10/25/10 15:18

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R010135

**S<sub>2</sub>**  
741 Corporate Circle Suite I ♦ 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

Fax: (303) 433-1432

**Sampler Name:**

**Project Manager:**

E-Mail:

Project Name:

Project Number: 7

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

Project: PDC - Heldt 11-18

Project Number: PDC 10029  
Project Manager: Brian Dodek

**Reported:**  
10/25/10 15:18

**GWWest01**  
**R010135-01 (Water)**

**Summit Scientific**

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

Date Sampled: **10/20/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	0102201	10/22/10	10/23/10	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/20/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.2 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		94.7 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %	80.8-120		"	"	"	"	

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**Reported:**  
10/25/10 15:18

**GWEast01**  
**R010135-02 (Water)**

**Summit Scientific**

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

Date Sampled: **10/20/10 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	0102201	10/22/10	10/23/10	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **10/20/10 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		96.2 %		57.9-139		"	"	"	"	
Surrogate: Toluene-d8		93.0 %		83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %		80.8-120		"	"	"	"	

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Reported:  
10/25/10 15:18

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

### Summit Scientific

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

#### Batch 0102201 - EPA 5030 Water MS

##### Blank (0102201-BLK1)

Prepared & Analyzed: 10/22/10

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.0		"	13.3		97.1	57.9-139			
Surrogate: Toluene-d8	12.4		"	13.3		92.9	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.2	80.8-120			

##### LCS (0102201-BS1)

Prepared & Analyzed: 10/22/10

Benzene	29.0	1.0	ug/l	33.3		86.9	60.1-131		10.9	
Toluene	25.4	1.0	"	33.3		76.1	65.9-127		11.3	
Ethylbenzene	31.1	1.0	"	33.3		93.4	65.1-129		20	
m,p-Xylene	58.9	2.0	"	66.7		88.4	66.8-127		20	
o-Xylene	26.9	1.0	"	33.3		80.6	61.2-120		20	
Surrogate: 1,2-Dichloroethane-d4	13.2		"	13.3		98.9	57.9-139			
Surrogate: Toluene-d8	12.6		"	13.3		94.1	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		96.0	80.8-120			

##### LCS Dup (0102201-BSD1)

Prepared & Analyzed: 10/22/10

Benzene	29.6	1.0	ug/l	33.3		88.9	60.1-131	2.22	10.9	
Toluene	26.7	1.0	"	33.3		80.0	65.9-127	4.99	11.3	
Ethylbenzene	32.6	1.0	"	33.3		97.8	65.1-129	4.64	20	
m,p-Xylene	60.7	2.0	"	66.7		91.0	66.8-127	2.98	20	
o-Xylene	29.0	1.0	"	33.3		86.9	61.2-120	7.45	20	
Surrogate: 1,2-Dichloroethane-d4	13.2		"	13.3		98.9	57.9-139			
Surrogate: Toluene-d8	12.7		"	13.3		95.0	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3		95.0	80.8-120			

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10/25/10 15:18

**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 0102201 - EPA 5030 Water MS**

<b>Matrix Spike (0102201-MS1)</b>		<b>Source: R010126-01</b>			<b>Prepared &amp; Analyzed: 10/22/10</b>					
Benzene	30.1	1.0	ug/l	33.3	ND	90.4	52.7-130		19.3	
Toluene	25.6	1.0	"	33.3	ND	76.8	57-127		18.7	
Ethylbenzene	31.8	1.0	"	33.3	ND	95.5	59.2-127		20	
m,p-Xylene	58.9	2.0	"	66.7	ND	88.4	53.2-132		20	
o-Xylene	27.8	1.0	"	33.3	ND	83.5	56.3-117		20	
Surrogate: 1,2-Dichloroethane-d4	13.2		"	13.3		98.9	57.9-139			
Surrogate: Toluene-d8	13.4		"	13.3		100	83.1-115			
Surrogate: 4-Bromofluorobenzene	11.9		"	13.3		89.0	80.8-120			
<b>Matrix Spike Dup (0102201-MSD1)</b>		<b>Source: R010126-01</b>			<b>Prepared &amp; Analyzed: 10/22/10</b>					
Benzene	29.1	1.0	ug/l	33.3	ND	87.3	52.7-130	3.44	19.3	
Toluene	24.9	1.0	"	33.3	ND	74.8	57-127	2.61	18.7	
Ethylbenzene	31.0	1.0	"	33.3	ND	93.2	59.2-127	2.51	20	
m,p-Xylene	58.3	2.0	"	66.7	ND	87.4	53.2-132	1.09	20	
o-Xylene	27.4	1.0	"	33.3	ND	82.2	56.3-117	1.63	20	
Surrogate: 1,2-Dichloroethane-d4	13.2		"	13.3		98.7	57.9-139			
Surrogate: Toluene-d8	14.4		"	13.3		108	83.1-115			
Surrogate: 4-Bromofluorobenzene	11.9		"	13.3		89.2	80.8-120			

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Project Manager: Brian Dodek

**Reported:**  
10/25/10 15:18

### 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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A handwritten signature in black ink, appearing to be 'JD' or similar, with a long horizontal stroke extending to the right.

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