

**TABLE 1**  
**GROUNDWATER SAMPLE ANALYTICAL DATA**  
**HAHN 24-27**  
**WELD COUNTY, COLORADO**  
**PETROLEUM DEVELOPMENT CORPORATION**

<b>SAMPLE ID</b>	<b>SAMPLE DATE</b>	<b>BENZENE (µg/L)</b>	<b>TOLUENE (µg/L)</b>	<b>ETHYLBENZENE (µg/L)</b>	<b>XYLENES (µg/L)</b>
MW01	10/31/2007	< 0.4	< 0.4	1.2	0.12
MW02	10/31/2007	1.8	< 0.4	1.2	0.5
MW03	10/31/2007	< 0.4	< 0.4	0.8	< 0.4
MW03	11/5/2008	3.1	< 1.0	1.6	740
MW03	2/16/2009	< 1.0	< 1.0	< 1.0	< 1.0
MW04	10/31/2007	< 0.4	< 0.4	< 0.4	< 0.4
MW04	11/5/2008	< 1.0	< 1.0	< 1.0	< 1.0
MW05	10/31/2007	< 0.4	< 0.4	< 0.4	< 0.4
MW05	11/5/2008	< 1.0	< 1.0	< 1.0	< 1.0
MW05	2/16/2009	< 1.0	< 1.0	< 1.0	< 1.0
The Basic Standards for Groundwater		5	560	700	1,400

µg/L - Micrograms per liter

< - Less than stated laboratory reporting limits

Results noted in bold exceed Colorado Department of Public Health and Environment (CDPHE)-Water  
Quality Control Commission (WQCC) Regulation 41-The Basic Standards for Groundwater



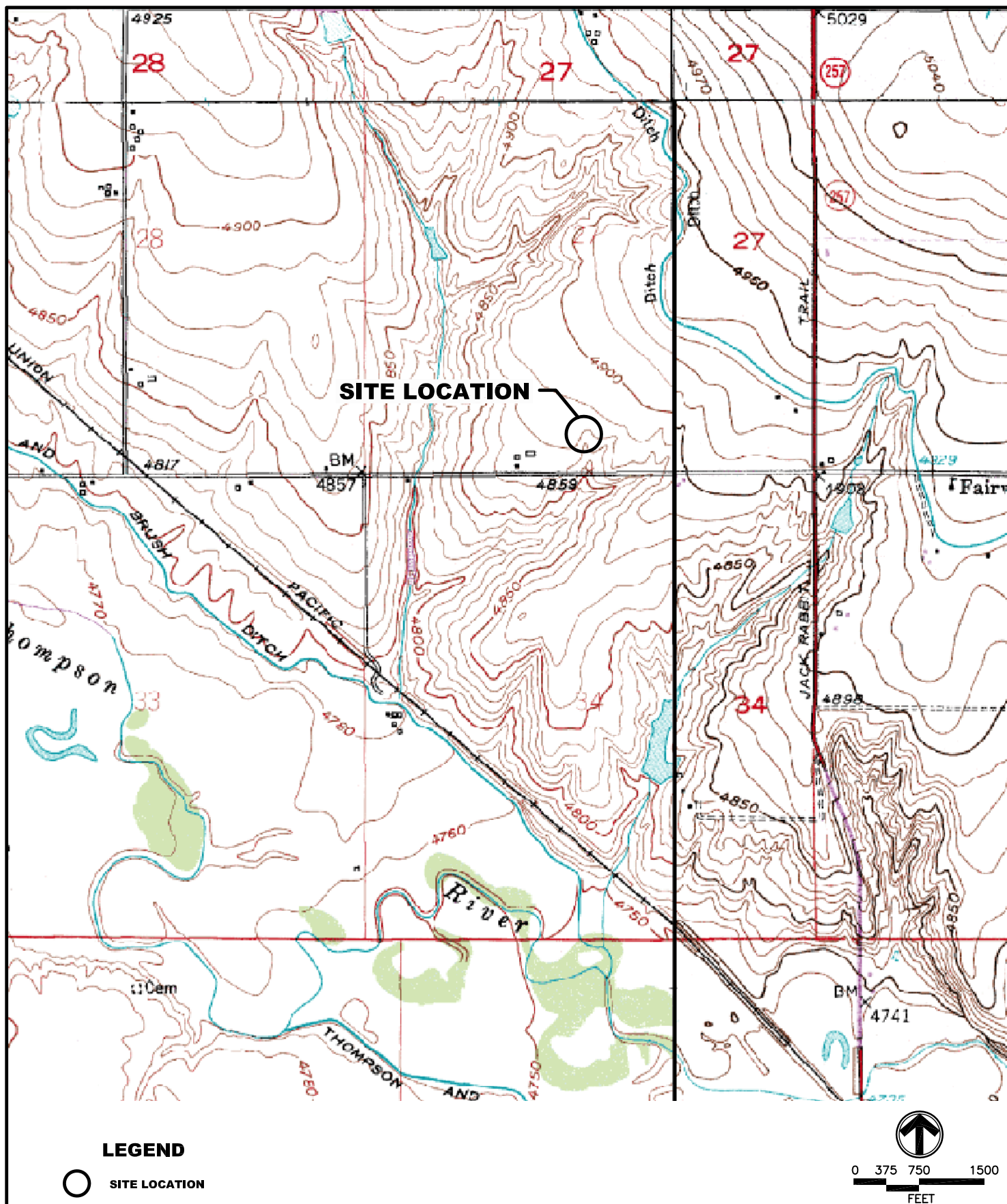
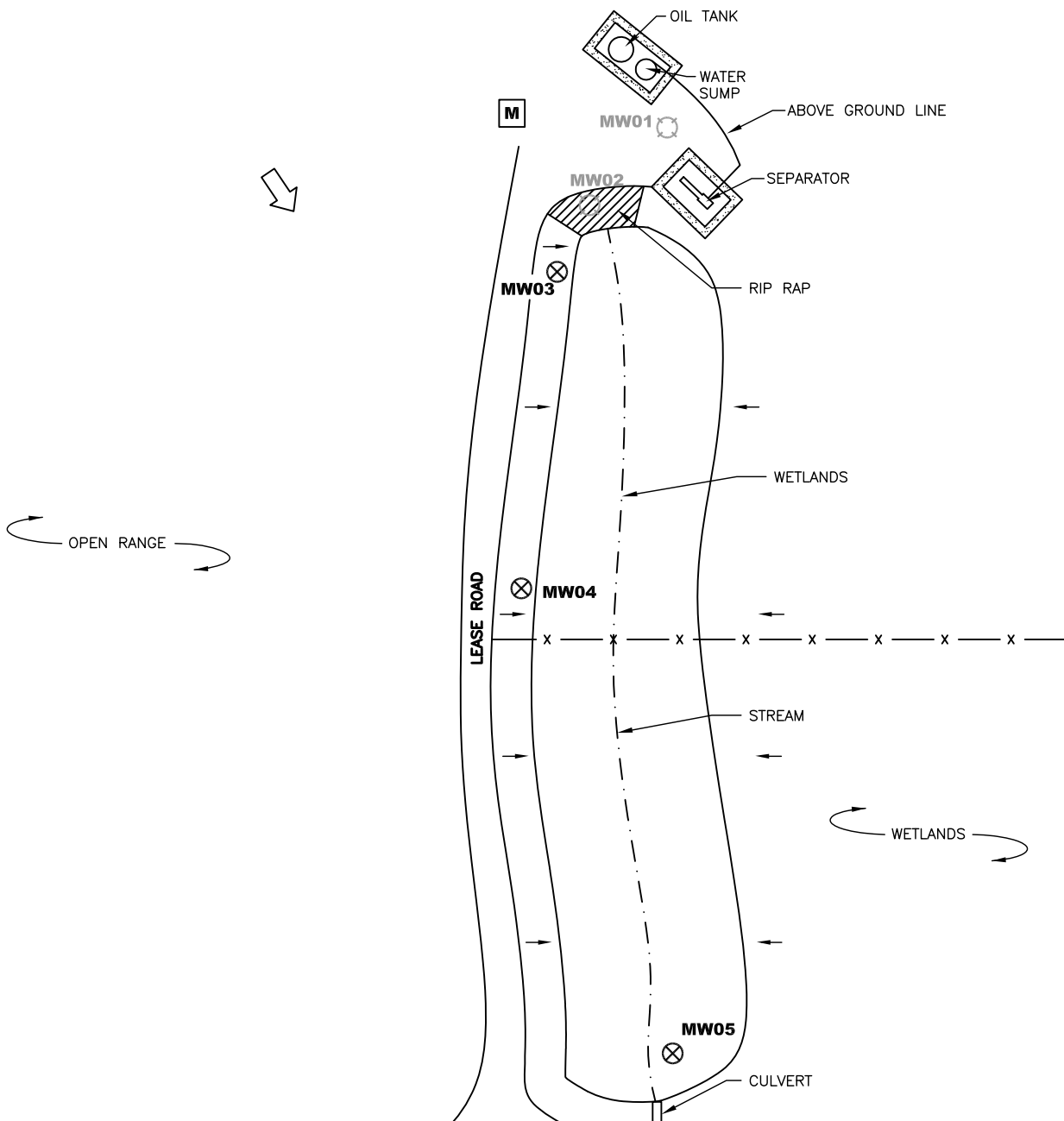


FIGURE 1  
 SITE LOCATION MAP  
 HAHN 24-27  
 SESW 27-T5N-R67W  
 WELD COUNTY, CO  
 PETROLEUM DEVELOPMENT CORPORATION

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





WELD COUNTY ROAD 52

### LEGEND

- MW03** MONITORING WELL LOCATION
- MW01** DESTROYED MONITORING WELL LOCATION
- M** METER HOUSE
- BERM
- FENCE
- SLOPE DIRECTION
- ESTIMATED GROUNDWATER FLOW DIRECTION

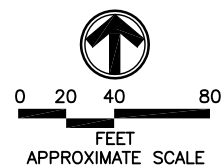


FIGURE 2  
SITE MAP  
HAHN 24-27  
SESW 27-T5N-R67W  
WELD COUNTY, CO  
PETROLEUM DEVELOPMENT CORPORATION



# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

November 11, 2008

John Peterson  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: PDC - Hahn 23 & 24-27

Enclosed are the results of analyses for samples received by Summit Scientific on 11/05/08 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Paul Shrewsbury For Ben Shrewsbury  
Vice President / Laboratory Director



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

Project: PDC - Hahn 23 & 24-27

Project Number: PDC 08096  
Project Manager: John Peterson

**Reported:**  
11/11/08 12:32

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW05	R811022-01	Water	11/05/08 11:50	11/05/08 16:30
MW04	R811022-02	Water	11/05/08 12:10	11/05/08 16:30
MW03	R811022-03	Water	11/05/08 12:30	11/05/08 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 - Hahn 23 &amp; 24-27

Project Number: PDC 08096  
Project Manager: John Peterson

**Reported:**  
11/11/08 12:32

## Summit Scientific R811022

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

Sampler Name: 20.1

**Project Manager:** John Peterson

E-Mail: [j.peterson@ltnv.com](mailto:j.peterson@ltnv.com)

Project Name: Hobbes 23 + 24 - 27

Project Number: 200 - 02096

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
M3-05	11/5/04	11:50	3	X				X							
M4-04	"	12:30	3	X				X							
M5-03	"	12:30	2	X				X							
M6-01	"	12:30	3	X				X							
M7-02	"	12:30	3	X				X							
M8-03	"	12:30	3	X				X							
M9-04	"	12:30	3	X				X							
M10-05	"	12:30	3	X				X							
M11-06	"	12:30	3	X				X							
M12-07	"	12:30	3	X				X							
M13-08	"	12:30	3	X				X							
M14-09	"	12:30	3	X				X							
M15-10	"	12:30	3	X				X							
M16-11	"	12:30	3	X				X							
M17-12	"	12:30	3	X				X							
M18-13	"	12:30	3	X				X							
M19-14	"	12:30	3	X				X							
M20-15	"	12:30	3	X				X							
M21-16	"	12:30	3	X				X							
M22-17	"	12:30	3	X				X							
M23-18	"	12:30	3	X				X							
M24-19	"	12:30	3	X				X							
M25-20	"	12:30	3	X				X							
M26-21	"	12:30	3	X				X							
M27-22	"	12:30	3	X				X							
M28-23	"	12:30	3	X				X							
M29-24	"	12:30	3	X				X							
M30-25	"	12:30	3	X				X							
M31-26	"	12:30	3	X				X							
M32-27	"	12:30	3	X				X							
M33-28	"	12:30	3	X				X							
M34-29	"	12:30	3	X				X							
M35-30	"	12:30	3	X				X							
M36-31	"	12:30	3	X				X							
M37-32	"	12:30	3	X				X							
M38-33	"	12:30	3	X				X							
M39-34	"	12:30	3	X				X							
M40-35	"	12:30	3												

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

Project: PDC - Hahn 23 & 24-27

Project Number: PDC 08096  
Project Manager: John Peterson

Reported:  
11/11/08 12:32

**MW05**  
**R811022-01 (Water)**

**Summit Scientific**

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

Date Sampled: 11/05/08 11:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	8110707	11/07/08	11/09/08	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 11/05/08 11:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		101 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		102 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	85.3-109		"	"	"	"	

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4600 West 60th Avenue  
Arvada CO, 80003

Project: PDC - Hahn 23 & 24-27

Project Number: PDC 08096  
Project Manager: John Peterson

**Reported:**  
11/11/08 12:32

**MW04**  
**R811022-02 (Water)**

**Summit Scientific**

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

Date Sampled: 11/05/08 12:10

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	8110707	11/07/08	11/09/08	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 11/05/08 12:10

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		108 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		103 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	85.3-109		"	"	"	"	

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

Project: PDC - Hahn 23 & 24-27

Project Number: PDC 08096  
Project Manager: John Peterson

**Reported:**  
11/11/08 12:32

**MW03**  
**R811022-03 (Water)**

**Summit Scientific**

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

Date Sampled: 11/05/08 12:30

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Benzene</b>	<b>3.1</b>	1.0		ug/l	1	8110707	11/07/08	11/09/08	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>1.6</b>	1.0		"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>740</b>	1.0		"	"	"	"	"	"	

Date Sampled: 11/05/08 12:30

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		106 %		77.3-121		"	"	"	"	
Surrogate: Toluene-d8		104 %		91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %		85.3-109		"	"	"	"	

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

Project: PDC - Hahn 23 & 24-27

Project Number: PDC 08096  
Project Manager: John Peterson

Reported:  
11/11/08 12:32

## 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 8110707 - EPA 5030 Water MS

##### Blank (8110707-BLK1)

Prepared: 11/07/08 Analyzed: 11/09/08

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.3	105	77.3-121				
Surrogate: Toluene-d8	13.6		"	13.3	102	91.4-107				
Surrogate: 4-Bromofluorobenzene	14.5		"	13.3	109	85.3-109				

##### LCS (8110707-BS1)

Prepared: 11/07/08 Analyzed: 11/09/08

Benzene	31.2	1.0	ug/l	33.3	93.7	70-114				
Toluene	31.4	1.0	"	33.3	94.3	72.7-116				
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.3	105	77.3-121				
Surrogate: Toluene-d8	14.0		"	13.3	105	91.4-107				
Surrogate: 4-Bromofluorobenzene	14.4		"	13.3	108	85.3-109				

##### LCS Dup (8110707-BSD1)

Prepared: 11/07/08 Analyzed: 11/09/08

Benzene	31.2	1.0	ug/l	33.3	93.7	70-114	0.00	8.14		
Toluene	31.6	1.0	"	33.3	94.9	72.7-116	0.635	7.88		
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.3	104	77.3-121				
Surrogate: Toluene-d8	13.9		"	13.3	105	91.4-107				
Surrogate: 4-Bromofluorobenzene	14.4		"	13.3	108	85.3-109				

##### Matrix Spike (8110707-MS1)

Source: R810178-04

Prepared: 11/07/08 Analyzed: 11/09/08

Benzene	33.1	1.0	ug/l	33.3	ND	99.4	66.8-117			
Toluene	33.5	1.0	"	33.3	ND	101	71.5-117			
Surrogate: 1,2-Dichloroethane-d4	14.8		"	13.3	111	77.3-121				
Surrogate: Toluene-d8	14.0		"	13.3	105	91.4-107				
Surrogate: 4-Bromofluorobenzene	14.5		"	13.3	109	85.3-109				

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

Project: PDC - Hahn 23 & 24-27

Project Number: PDC 08096  
Project Manager: John Peterson

Reported:  
11/11/08 12:32

**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 8110707 - EPA 5030 Water MS**

Matrix Spike Dup (8110707-MSD1)				Source: R810178-04		Prepared: 11/07/08		Analyzed: 11/09/08		
Benzene	32.7	1.0	ug/l	33.3	ND	98.2	66.8-117	1.22	17.8	
Toluene	32.8	1.0	"	33.3	ND	98.5	71.5-117	2.11	14.4	
Surrogate: 1,2-Dichloroethane-d4	16.8		"	13.3		126	77.3-121			S-02
Surrogate: Toluene-d8	14.0		"	13.3		105	91.4-107			
Surrogate: 4-Bromofluorobenzene	14.7		"	13.3		111	85.3-109			S-02

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LT Environmental, Inc.  
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Arvada CO, 80003

Project: PDC - Hahn 23 & 24-27

Project Number: PDC 08096  
Project Manager: John Peterson

**Reported:**  
11/11/08 12:32

### Notes and Definitions

S-02      The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

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 'JP' 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

February 26, 2009

John Peterson  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: PDC - Hahn 24-27

Enclosed are the results of analyses for samples received by Summit Scientific on 02/16/09 16:47. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Logan Shrewsbury For Ben Shrewsbury  
Vice President / Laboratory Director



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

Project: PDC - Hahn 24-27

Project Number: PDC 08089  
Project Manager: John Peterson

**Reported:**  
02/26/09 12:50

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW03	R902086-01	Water	02/16/09 13:10	02/16/09 16:47
MW05	R902086-02	Water	02/16/09 13:30	02/16/09 16:47

Summit Scientific

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

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

Project: PDC - Hahn 24-27

Project Number: PDC 08089  
Project Manager: John Peterson

**Reported:**  
02/26/09 12:50

Summit Scientific  
L602076

S<sub>2</sub>  
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

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

Phone: (303) 433-9188

Sampler Name: Ms. A

**Project Manager:** John Peterson

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

Project Name: 4.6 24-27

Project Name: Hand 2381  
Project Number: 00000000

Project Number: EDC 080871

[illegible]

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

Project: PDC - Hahn 24-27

Project Number: PDC 08089  
Project Manager: John Peterson

**Reported:**  
02/26/09 12:50

**MW03**  
**R902086-01 (Water)**

**Summit Scientific**

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

Date Sampled: **02/16/09 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	9022301	02/23/09	02/25/09	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **02/16/09 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.0 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		97.0 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.0 %	85.3-109		"	"	"	"	

Summit Scientific

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

Project: PDC - Hahn 24-27

Project Number: PDC 08089  
Project Manager: John Peterson

**Reported:**  
02/26/09 12:50

**MW05**  
**R902086-02 (Water)**

**Summit Scientific**

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

Date Sampled: **02/16/09 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	9022301	02/23/09	02/25/09	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **02/16/09 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		91.7 %		77.3-121		"	"	"	"	
Surrogate: Toluene-d8		96.2 %		91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.7 %		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 - Hahn 24-27

Project Number: PDC 08089  
Project Manager: John Peterson

Reported:  
02/26/09 12:50

## 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 9022301 - EPA 5030 Water MS

##### Blank (9022301-BLK1)

Prepared: 02/23/09 Analyzed: 02/24/09

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	11.6		"	13.3		87.2	77.3-121			
Surrogate: Toluene-d8	12.9		"	13.3		97.0	91.4-107			
Surrogate: 4-Bromofluorobenzene	12.1		"	13.3		91.0	85.3-109			

##### LCS (9022301-BS1)

Prepared: 02/23/09 Analyzed: 02/24/09

Benzene	23.9	1.0	ug/l	33.3		71.8	70-114			
Toluene	25.4	1.0	"	33.3		76.3	72.7-116			
Surrogate: 1,2-Dichloroethane-d4	11.6		"	13.3		87.2	77.3-121			
Surrogate: Toluene-d8	12.8		"	13.3		96.2	91.4-107			
Surrogate: 4-Bromofluorobenzene	12.0		"	13.3		90.2	85.3-109			

##### LCS Dup (9022301-BSD1)

Prepared: 02/23/09 Analyzed: 02/24/09

Benzene	21.6	1.0	ug/l	33.3		64.9	70-114	10.1	8.14	
Toluene	23.0	1.0	"	33.3		69.1	72.7-116	9.92	7.88	
Surrogate: 1,2-Dichloroethane-d4	11.9		"	13.3		89.5	77.3-121			
Surrogate: Toluene-d8	12.7		"	13.3		95.5	91.4-107			
Surrogate: 4-Bromofluorobenzene	11.9		"	13.3		89.5	85.3-109			

##### Matrix Spike (9022301-MS1)

Source: R902085-01

Prepared: 02/23/09 Analyzed: 02/24/09

Benzene	25.3	1.0	ug/l	33.3	ND	76.0	66.8-117			
Toluene	27.6	1.0	"	33.3	ND	82.9	71.5-117			
Surrogate: 1,2-Dichloroethane-d4	12.0		"	13.3		90.2	77.3-121			
Surrogate: Toluene-d8	12.9		"	13.3		97.0	91.4-107			
Surrogate: 4-Bromofluorobenzene	12.0		"	13.3		90.2	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 - Hahn 24-27

Project Number: PDC 08089  
Project Manager: John Peterson

Reported:  
02/26/09 12:50

**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 9022301 - EPA 5030 Water MS**

Matrix Spike Dup (9022301-MSD1)		Source: R902085-01			Prepared: 02/23/09		Analyzed: 02/24/09			
Benzene	24.0	1.0	ug/l	33.3	ND	72.1	66.8-117	5.27	17.8	
Toluene	25.8	1.0	"	33.3	ND	77.5	71.5-117	6.74	14.4	
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.3		105	77.3-121			
Surrogate: Toluene-d8	12.8		"	13.3		96.2	91.4-107			
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3		93.2	85.3-109			

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**Reported:**  
02/26/09 12:50

### 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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Summit Scientific

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

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