

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.374.5933 - fax

May 12, 2009

Steve Compton
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: MS - Matrix-Box Elder 27-2

Enclosed are the results of analyses for samples received by Summit Scientific on 05/11/09 14:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Ben Shrewsbury
Vice President / Laboratory Director

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

Project: MS - Matrix-Box Elder 27-2
Project Number: MS 0901
Project Manager: Steve Compton

Reported:
05/12/09 10:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W01@4'	R905070-01	Soil	05/11/09 14:06	05/11/09 14:15
S01@4'	R905070-02	Soil	05/11/09 14:08	05/11/09 14:15
N01@5'	R905070-03	Soil	05/11/09 14:10	05/11/09 14:15
B01@7'	R905070-04	Soil	05/11/09 14:13	05/11/09 14:15
B02@13'	R905070-05	Soil	05/11/09 14:38	05/11/09 14:15
S04@5'	R905070-06	Soil	05/11/09 15:16	05/11/09 14:15
N02@5'	R905070-07	Soil	05/11/09 14:44	05/11/09 14:15
EC-Background	R905070-08	Soil	05/11/09 14:47	05/11/09 14:15

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

Project: MS - Matrix-Box Elder 27-2

Project Number: MS 0901
Project Manager: Steve Compton

Reported:
05/12/09 10:22

Summit ScientificSM

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

Client: LT Environmental, Inc.

Address: 4600 West 60th Avenue

Address: 4600 West 60th Avenue

City/State/Zip: Arvada, CO 80003

Phone: (303) 433-9788

Sampler Name: S Coniston

Client: LT Environmental, Inc.

Address: 4600 West 60th Avenue

Address: 4600 West 60th Avenue

City/State/Zip: Arvada, CO 80003

Phone: (303) 433-9788

Sampler Name: S Coniston

Sample Description		Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix		Analyze For:	Special Instructions	
					HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	
50104'	5.11.09	1406	2						X				
50104'		1408	2										
50105'		1410	2										
50107'		1413	2										
50105'		1414	1										
50203		1438	1										
50405'		1516	1										
50205'		1441	1										
EC-BACKLAND		1447	1										

Requisitioned by:	Date/Time:	Received by:	Date/Time:	Turn Around Time (Check)	Notes:
<i>[Signature]</i>	5.11.09 1415	<i>[Signature]</i>	5.11.09 1415	<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	100% BACKLAND SC

Requisitioned by:	Date/Time:	Received in Lab by:	Date/Time:	Sample Integrity:	Temperature Upon Receipt:	Intact:
<i>[Signature]</i>	5.11.09 1415	<i>[Signature]</i>	5.11.09 1415	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	41.8	

LT Environmental, Inc.
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05/12/09 10:22

W01@4'
R905070-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/11/09 14:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (TEPH-GRO)	ND	50	mg/kg	1	9051110	05/11/09	05/11/09	8015 Full Carbon Chain	
C10-C28 (TEPH-DRO)	ND	50	"	"	"	"	"	"	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	
C6-C36 Total TEPH	ND	50	"	"	"	"	"	"	

Date Sampled: **05/11/09 14:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		96.0 %	77.7-123		"	"	"	"	
Surrogate: Trifluorotoluene		90.8 %	73.9-120		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/11/09 14:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	9051111	05/11/09	05/11/09	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	

Date Sampled: **05/11/09 14:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		96.5 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %	85.3-109		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

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W01@4'
R905070-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/11/09 14:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.204	0.00100	mhos/cm	1	9051113	05/11/09	05/11/09	SM 2510b/mod	

Date Sampled: **05/11/09 14:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.9		pH Units	"	9051114	05/11/09	05/11/09	EPA 9045B	

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Reported:
05/12/09 10:22

S01@4'
R905070-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/11/09 14:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (TEPH-GRO)	ND	50	mg/kg	1	9051110	05/11/09	05/11/09	8015 Full Carbon Chain	
C10-C28 (TEPH-DRO)	ND	50	"	"	"	"	"	"	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	
C6-C36 Total TEPH	ND	50	"	"	"	"	"	"	

Date Sampled: **05/11/09 14:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		106 %	77.7-123		"	"	"	"	
Surrogate: Trifluorotoluene		96.8 %	73.9-120		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/11/09 14:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.050	mg/kg	10	9051111	05/11/09	05/11/09	EPA 8260B	R-01
Toluene	ND	0.050	"	"	"	"	"	"	R-01
Ethylbenzene	ND	0.050	"	"	"	"	"	"	R-01
Xylenes (total)	ND	0.050	"	"	"	"	"	"	R-01

Date Sampled: **05/11/09 14:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.3 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		96.0 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	85.3-109		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

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S01@4'
R905070-02 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/11/09 14:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.218	0.00100	mhos/cm	1	9051113	05/11/09	05/11/09	SM 2510b/mod	

Date Sampled: **05/11/09 14:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.6		pH Units	"	9051114	05/11/09	05/11/09	EPA 9045B	

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N01@5'
R905070-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 05/11/09 14:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (TEPH-GRO)	ND	50	mg/kg	1	9051110	05/11/09	05/11/09	8015 Full Carbon Chain	
C10-C28 (TEPH-DRO)	ND	50	"	"	"	"	"	"	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	
C6-C36 Total TEPH	ND	50	"	"	"	"	"	"	

Date Sampled: 05/11/09 14:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		104 %	77.7-123		"	"	"	"	
Surrogate: Trifluorotoluene		98.4 %	73.9-120		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 05/11/09 14:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	9051111	05/11/09	05/11/09	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	

Date Sampled: 05/11/09 14:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		95.2 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.0 %	85.3-109		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

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Reported:
05/12/09 10:22

N01@5'
R905070-03 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/11/09 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.09	0.00100	mhos/cm	1	9051113	05/11/09	05/11/09	SM 2510b/mod	

Date Sampled: **05/11/09 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.4		pH Units	"	9051114	05/11/09	05/11/09	EPA 9045B	

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Project Number: MS 0901
Project Manager: Steve Compton

Reported:
05/12/09 10:22

B01@7'
R905070-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/11/09 14:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (TEPH-GRO)	ND	50	mg/kg	1	9051110	05/11/09	05/12/09	8015 Full Carbon Chain	
C10-C28 (TEPH-DRO)	ND	50	"	"	"	"	"	"	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	
C6-C36 Total TEPH	ND	50	"	"	"	"	"	"	

Date Sampled: **05/11/09 14:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		98.4 %	77.7-123		"	"	"	"	
Surrogate: Trifluorotoluene		94.0 %	73.9-120		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/11/09 14:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	9051111	05/11/09	05/11/09	EPA 8260B	
Toluene	0.013	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.014	0.0050	"	"	"	"	"	"	

Date Sampled: **05/11/09 14:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		96.0 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.5 %	85.3-109		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

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B01@7'
R905070-04 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/11/09 14:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.491	0.00100	mhos/cm	1	9051113	05/11/09	05/11/09	SM 2510b/mod	

Date Sampled: **05/11/09 14:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.2		pH Units	"	9051114	05/11/09	05/11/09	EPA 9045B	

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Project: MS - Matrix-Box Elder 27-2

Project Number: MS 0901
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Reported:
05/12/09 10:22

B02@13'
R905070-05 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/11/09 14:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (TEPH-GRO)	740	50	mg/kg	1	9051110	05/11/09	05/12/09	8015 Full Carbon Chain	
C10-C28 (TEPH-DRO)	1500	50	"	"	"	"	"	"	
C28-C36 (TEPH-ORO)	56	50	"	"	"	"	"	"	
C6-C36 Total TEPH	2300	50	"	"	"	"	"	"	

Date Sampled: **05/11/09 14:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		100 %	77.7-123		"	"	"	"	
<i>Surrogate: Trifluorotoluene</i>		90.0 %	73.9-120		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/11/09 14:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.16	0.0050	mg/kg	1	9051111	05/11/09	05/11/09	EPA 8260B	
Toluene	21	0.50	"	100	"	"	"	"	
Ethylbenzene	7.9	0.50	"	"	"	"	"	"	
Xylenes (total)	81	0.50	"	"	"	"	"	"	

Date Sampled: **05/11/09 14:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.8 %	77.3-121		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		107 %	91.4-107		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	85.3-109		"	"	"	"	

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05/12/09 10:22

S04@5'
R905070-06 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/11/09 15:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (TEPH-GRO)	ND	50	mg/kg	1	9051110	05/11/09	05/12/09	8015 Full Carbon Chain	
C10-C28 (TEPH-DRO)	ND	50	"	"	"	"	"	"	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	
C6-C36 Total TEPH	ND	50	"	"	"	"	"	"	

Date Sampled: **05/11/09 15:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		102 %	77.7-123		"	"	"	"	
Surrogate: Trifluorotoluene		102 %	73.9-120		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/11/09 15:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	9051111	05/11/09	05/11/09	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	

Date Sampled: **05/11/09 15:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		98.5 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	85.3-109		"	"	"	"	

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05/12/09 10:22

N02@5'
R905070-07 (Soil)

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Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/11/09 14:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (TEPH-GRO)	ND	50	mg/kg	1	9051110	05/11/09	05/12/09	8015 Full Carbon Chain	
C10-C28 (TEPH-DRO)	ND	50	"	"	"	"	"	"	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	
C6-C36 Total TEPH	ND	50	"	"	"	"	"	"	

Date Sampled: **05/11/09 14:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		100 %	77.7-123		"	"	"	"	
Surrogate: Trifluorotoluene		97.2 %	73.9-120		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/11/09 14:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.039	0.0050	mg/kg	1	9051111	05/11/09	05/11/09	EPA 8260B	
Toluene	0.72	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.23	0.0050	"	"	"	"	"	"	
Xylenes (total)	2.1	0.0050	"	"	"	"	"	"	

Date Sampled: **05/11/09 14:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		105 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	85.3-109		"	"	"	"	

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05/12/09 10:22

EC-Background
R905070-08 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/11/09 14:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.189	0.00100	mhos/cm	1	9051113	05/11/09	05/11/09	SM 2510b/mod	

Date Sampled: **05/11/09 14:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.8		pH Units	"	9051114	05/11/09	05/11/09	EPA 9045B	

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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: MS - Matrix-Box Elder 27-2

Project Number: MS 0901
Project Manager: Steve Compton

Reported:
05/12/09 10:22

Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

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

Batch 9051110 - EPA 3550A

LCS (9051110-BS1)

Prepared: 05/11/09 Analyzed: 05/12/09

C6-C10 (TEPH-GRO)	471	50	mg/kg	519	90.8	70-130				
C10-C28 (TEPH-DRO)	ND	50	"			83.3-127				

LCS (9051110-BS2)

Prepared: 05/11/09 Analyzed: 05/12/09

C6-C10 (TEPH-GRO)	ND	50	mg/kg			70-130				
C10-C28 (TEPH-DRO)	410	50	"	500	82.0	83.3-127				

LCS Dup (9051110-BSD1)

Prepared: 05/11/09 Analyzed: 05/12/09

C6-C10 (TEPH-GRO)	493	50	mg/kg	519	95.0	70-130	4.56	20		
C10-C28 (TEPH-DRO)	ND	50	"			83.3-127		15		

LCS Dup (9051110-BSD2)

Prepared: 05/11/09 Analyzed: 05/12/09

C6-C10 (TEPH-GRO)	ND	50	mg/kg			70-130		20		
C10-C28 (TEPH-DRO)	505	50	"	500	101	83.3-127	20.8	15		

Summit Scientific

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

Project: MS - Matrix-Box Elder 27-2
Project Number: MS 0901
Project Manager: Steve Compton

Reported:
05/12/09 10:22

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 9051111 - EPA 5030 Soil MS

Blank (9051111-BLK1)

Prepared: 05/11/09 Analyzed: 05/12/09

Benzene	ND	0.0050	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Surrogate: 1,2-Dichloroethane-d4	0.0430		"	0.0400	108	77.3-121				
Surrogate: Toluene-d8	0.0382		"	0.0400	95.5	91.4-107				
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400	98.8	85.3-109				

LCS (9051111-BS1)

Prepared: 05/11/09 Analyzed: 05/12/09

Benzene	0.0895	0.0050	mg/kg	0.100	89.5	70-114				
Toluene	0.0976	0.0050	"	0.100	97.6	72.7-116				
Surrogate: 1,2-Dichloroethane-d4	0.0433		"	0.0400	108	77.3-121				
Surrogate: Toluene-d8	0.0382		"	0.0400	95.5	91.4-107				
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400	98.8	85.3-109				

LCS Dup (9051111-BSD1)

Prepared: 05/11/09 Analyzed: 05/12/09

Benzene	0.0892	0.0050	mg/kg	0.100	89.2	70-114	0.336	8.14		
Toluene	0.0953	0.0050	"	0.100	95.3	72.7-116	2.38	7.88		
Surrogate: 1,2-Dichloroethane-d4	0.0435		"	0.0400	109	77.3-121				
Surrogate: Toluene-d8	0.0379		"	0.0400	94.8	91.4-107				
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400	98.5	85.3-109				

Matrix Spike (9051111-MS1)

Source: R905070-01

Prepared: 05/11/09 Analyzed: 05/12/09

Benzene	0.0895	0.0050	mg/kg	0.100	ND	89.5	66.8-117			
Toluene	0.0955	0.0050	"	0.100	ND	95.5	71.5-117			
Surrogate: 1,2-Dichloroethane-d4	0.0422		"	0.0400	106	77.3-121				
Surrogate: Toluene-d8	0.0376		"	0.0400	94.0	91.4-107				
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400	99.5	85.3-109				

Summit Scientific

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

Project: MS - Matrix-Box Elder 27-2

Project Number: MS 0901
Project Manager: Steve Compton

Reported:
05/12/09 10:22

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 9051111 - EPA 5030 Soil MS

Matrix Spike Dup (9051111-MSD1)		Source: R905070-01			Prepared: 05/11/09		Analyzed: 05/12/09			
Benzene	0.0894	0.0050	mg/kg	0.100	ND	89.4	66.8-117	0.112	17.8	
Toluene	0.0950	0.0050	"	0.100	ND	95.0	71.5-117	0.525	14.4	
Surrogate: 1,2-Dichloroethane-d4	0.0416		"	0.0400		104	77.3-121			
Surrogate: Toluene-d8	0.0380		"	0.0400		95.0	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		98.0	85.3-109			

Summit Scientific

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

Project: MS - Matrix-Box Elder 27-2

Project Number: MS 0901
Project Manager: Steve Compton

Reported:
05/12/09 10:22

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Summit Scientific

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

Batch 9051113 - General Preparation

Duplicate (9051113-DUP1)	Source: R905070-01			Prepared & Analyzed: 05/11/09						
Specific Conductance (EC)	0.195	0.00100	mhos/cm		0.204			4.51	20	

Batch 9051114 - General Preparation

Duplicate (9051114-DUP1)	Source: R905070-01			Prepared & Analyzed: 05/11/09						
pH	7.7		pH Units		7.9			2.56	20	

Summit Scientific

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

Project: MS - Matrix-Box Elder 27-2

Project Number: MS 0901
Project Manager: Steve Compton

Reported:
05/12/09 10:22

Notes and Definitions

R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.

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

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.374.5933 - fax

May 13, 2009

Steve Compton
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: MAT - Box Elder 27-2

Enclosed are the results of analyses for samples received by Summit Scientific on 05/12/09 15:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Ben Shrewsbury
Vice President / Laboratory Director

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

Project: MAT - Box Elder 27-2

Project Number: MAT 0901
Project Manager: Steve Compton

Reported:
05/13/09 08:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E02 @ 6'	R905074-01	Soil	05/12/09 14:00	05/12/09 15:15
B03 @ 21'	R905074-02	Soil	05/12/09 14:18	05/12/09 15:15

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: MAT - Box Elder 27-2

Project Number: MAT 0901
Project Manager: Steve Compton

Reported:
05/13/09 08:39

Summit Scientific R905074

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

Page of 1

Client: LT Environmental, Inc.

Address: 4600 West 60th Avenue

City/State/Zip: Arvada, CO 80003

Phone: (303) 433-0788

Phone: (505) 452-7100

Project Manager: STEVE COMPTON

F-Mail: Scorpion@LTENV.com

Project Name: MAX : box EDOE 27-2

Project Number: MAT-0901

[illegible]

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: MAT - Box Elder 27-2

Project Number: MAT 0901
Project Manager: Steve Compton

Reported:
05/13/09 08:39

E02 @ 6'
R905074-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/12/09 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (TEPH-GRO)	ND	50	mg/kg	1	9051204	05/12/09	05/12/09	8015 Full Carbon Chain	
C10-C28 (TEPH-DRO)	ND	50	"	"	"	"	"	"	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	
C6-C36 Total TEPH	ND	50	"	"	"	"	"	"	

Date Sampled: **05/12/09 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		97.6 %	77.7-123		"	"	"	"	
Surrogate: Trifluorotoluene		97.6 %	73.9-120		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/12/09 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	9051202	05/12/09	05/12/09	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	

Date Sampled: **05/12/09 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		97.2 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.0 %	85.3-109		"	"	"	"	

Summit Scientific

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

Project: MAT - Box Elder 27-2

Project Number: MAT 0901
Project Manager: Steve Compton

Reported:
05/13/09 08:39

B03 @ 21'
R905074-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/12/09 14:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (TEPH-GRO)	ND	50	mg/kg	1	9051204	05/12/09	05/12/09	8015 Full Carbon Chain	
C10-C28 (TEPH-DRO)	ND	50	"	"	"	"	"	"	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	
C6-C36 Total TEPH	ND	50	"	"	"	"	"	"	

Date Sampled: **05/12/09 14:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		95.2 %	77.7-123		"	"	"	"	
Surrogate: Trifluorotoluene		93.6 %	73.9-120		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/12/09 14:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	9051202	05/12/09	05/12/09	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	

Date Sampled: **05/12/09 14:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		96.0 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.5 %	85.3-109		"	"	"	"	

Summit Scientific

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

Project: MAT - Box Elder 27-2
Project Number: MAT 0901
Project Manager: Steve Compton

Reported:
05/13/09 08:39

Extractable 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 9051204 - EPA 3550A

Blank (9051204-BLK1)

Prepared: 05/12/09 Analyzed: 05/13/09

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

LCS (9051204-BS1)

Prepared: 05/12/09 Analyzed: 05/13/09

C6-C10 (TEPH-GRO)	418	50	mg/kg	519	80.5	70-130
C10-C28 (TEPH-DRO)	ND	50	"			83.3-127

LCS (9051204-BS2)

Prepared: 05/12/09 Analyzed: 05/13/09

C6-C10 (TEPH-GRO)	ND	50	mg/kg			70-130
C10-C28 (TEPH-DRO)	357	50	"	500	71.4	83.3-127

LCS Dup (9051204-BSD1)

Prepared: 05/12/09 Analyzed: 05/13/09

C6-C10 (TEPH-GRO)	458	50	mg/kg	519	88.2	70-130	9.13	20
C10-C28 (TEPH-DRO)	ND	50	"			83.3-127		15

LCS Dup (9051204-BSD2)

Prepared: 05/12/09 Analyzed: 05/13/09

C6-C10 (TEPH-GRO)	ND	50	mg/kg			70-130		20
C10-C28 (TEPH-DRO)	482	50	"	500	96.4	83.3-127	29.8	15

Matrix Spike (9051204-MS1)

Source: R905074-01

Prepared: 05/12/09 Analyzed: 05/13/09

C6-C10 (TEPH-GRO)	486	50	mg/kg	519	ND	93.6	70-130
C10-C28 (TEPH-DRO)	ND	50	"		ND	75.8-126	

Matrix Spike (9051204-MS2)

Source: R905074-01

Prepared: 05/12/09 Analyzed: 05/13/09

C6-C10 (TEPH-GRO)	ND	50	mg/kg		ND	70-130	
C10-C28 (TEPH-DRO)	425	50	"	500	ND	85.0	75.8-126

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

Project: MAT - Box Elder 27-2

Project Number: MAT 0901
Project Manager: Steve Compton

Reported:
05/13/09 08:39

Extractable 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 9051204 - EPA 3550A

Matrix Spike Dup (9051204-MSD1)

Source: R905074-01

Prepared: 05/12/09 Analyzed: 05/13/09

C6-C10 (TEPH-GRO)	480	50	mg/kg	519	ND	92.5	70-130	1.24	20	
C10-C28 (TEPH-DRO)	ND	50	"		ND		75.8-126		13.6	

Matrix Spike Dup (9051204-MSD2)

Source: R905074-01

Prepared: 05/12/09 Analyzed: 05/13/09

C6-C10 (TEPH-GRO)	ND	50	mg/kg		ND		70-130		20	
C10-C28 (TEPH-DRO)	468	50	"	500	ND	93.6	75.8-126	9.63	13.6	

Summit Scientific

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

Project: MAT - Box Elder 27-2

Project Number: MAT 0901
Project Manager: Steve Compton

Reported:
05/13/09 08:39

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 9051202 - EPA 5030 Soil MS

Blank (9051202-BLK1)

Prepared & Analyzed: 05/12/09

Benzene	ND	0.0050	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Surrogate: 1,2-Dichloroethane-d4	0.0441		"	0.0400	110	77.3-121				
Surrogate: Toluene-d8	0.0388		"	0.0400	97.0	91.4-107				
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400	98.0	85.3-109				

LCS (9051202-BS1)

Prepared & Analyzed: 05/12/09

Benzene	0.0904	0.0050	mg/kg	0.100	90.4	70-114				
Toluene	0.0969	0.0050	"	0.100	96.9	72.7-116				
Surrogate: 1,2-Dichloroethane-d4	0.0432		"	0.0400	108	77.3-121				
Surrogate: Toluene-d8	0.0380		"	0.0400	95.0	91.4-107				
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400	98.2	85.3-109				

LCS Dup (9051202-BSD1)

Prepared & Analyzed: 05/12/09

Benzene	0.0927	0.0050	mg/kg	0.100	92.7	70-114	2.51	8.14		
Toluene	0.0984	0.0050	"	0.100	98.4	72.7-116	1.54	7.88		
Surrogate: 1,2-Dichloroethane-d4	0.0439		"	0.0400	110	77.3-121				
Surrogate: Toluene-d8	0.0382		"	0.0400	95.5	91.4-107				
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400	97.0	85.3-109				

Matrix Spike (9051202-MS1)

Source: R905074-01

Prepared & Analyzed: 05/12/09

Benzene	0.102	0.0050	mg/kg	0.100	ND	102	66.8-117			
Toluene	0.103	0.0050	"	0.100	ND	103	71.5-117			
Surrogate: 1,2-Dichloroethane-d4	0.0533		"	0.0400	133	77.3-121				
Surrogate: Toluene-d8	0.0386		"	0.0400	96.5	91.4-107				
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0400	96.5	85.3-109				

Summit Scientific

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

Project: MAT - Box Elder 27-2

Project Number: MAT 0901
Project Manager: Steve Compton

Reported:
05/13/09 08:39

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 9051202 - EPA 5030 Soil MS

Matrix Spike Dup (9051202-MSD1)	Source: R905074-01			Prepared & Analyzed: 05/12/09						
Benzene	0.0905	0.0050	mg/kg	0.100	ND	90.5	66.8-117	11.9	17.8	
Toluene	0.0995	0.0050	"	0.100	ND	99.5	71.5-117	3.46	14.4	
Surrogate: 1,2-Dichloroethane-d4	0.0429		"	0.0400		107	77.3-121			
Surrogate: Toluene-d8	0.0386		"	0.0400		96.5	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.0	85.3-109			

Summit Scientific

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

Project: MAT - Box Elder 27-2

Project Number: MAT 0901
Project Manager: Steve Compton

Reported:
05/13/09 08:39

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

