

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

Received 08/28/14

Location ID 418007

Document 2313772

September 12, 2011

Brett Forkner
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: NEP - Lazy D3-15Hz

Enclosed are the results of analyses for samples received by Summit Scientific on 08/31/11 08:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

Project: NEP - Lazy D3-15Hz

Project Number: NEP 1042
Project Manager: Brett Forkner

Reported:
09/12/11 08:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Lazy D3-15Hz-A	R108196-01	Soil	08/30/11 15:45	08/31/11 08:30
Lazy D3-15Hz-B	R108196-02	Soil	08/30/11 15:50	08/31/11 08:30
Lazy D3-15Hz-C	R108196-03	Soil	08/30/11 15:55	08/31/11 08:30

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

Project: NEP - Lazy D3-15Hz

Project Number: NEP 1042
Project Manager: Brett Forkner

Reported:
09/12/11 08:21

R108196

Summit Scientific

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

Client: 1st Environmental, Inc.
Address: 4400 West 60th Avenue
City/State/Zip: Denver, CO 80003
Phone: 303-662-0169 Fax: _____
Sampler Name: Brian Chastner

Page _____ of _____

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

Project: NEP - Lazy D3-15Hz
Project Number: NEP 1042
Project Manager: Brett Forkner

Reported:
09/12/11 08:21

Lazy D3-15Hz-A
R108196-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/30/11 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	110	50	mg/kg	1	1083105	08/31/11	08/31/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/30/11 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		111 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/30/11 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1083104	08/31/11	08/31/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.6	0.50	"	"	"	"	"	"	

Date Sampled: **08/30/11 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		117 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		97.4 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.4 %	78.4-125		"	"	"	"	

Calculated Analytes

Date Sampled: **08/30/11 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: NEP - Lazy D3-15Hz

Project Number: NEP 1042
Project Manager: Brett Forkner

Reported:
09/12/11 08:21

**Lazy D3-15Hz-A
R108196-01 (Soil)**

Summit Scientific

Calculated Analytes

Chromium+3 Calculated	19.5	0.490	mg/kg	1	1091201	09/02/11	09/12/11	Calculation
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Total Metals by EPA SW846 Method 6020 - Dry Weight Basis

Date Sampled: **08/30/11 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.37	0.0778	mg/kg	1	1090401	09/04/11	09/07/11	EPA 6020A	
Barium	93.7	3.89	"	"	"	"	"	"	
Cadmium	1.61	0.0778	"	"	"	"	"	"	
Chromium	20.0	0.0778	"	"	"	"	"	"	
Copper	31.8	0.389	"	"	"	"	"	"	
Lead	5.92	0.389	"	"	"	"	"	"	
Nickel	19.3	0.389	"	"	"	"	"	"	
Selenium	2.34	0.0778	"	"	"	"	"	"	
Silver	0.110	0.0778	"	"	"	"	"	"	
Zinc	71.5	3.89	"	"	"	"	"	"	

Total Mercury by EPA SW846 Method 7471/7470

Date Sampled: **08/30/11 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0500	mg/kg	1	1090701	09/07/11	09/07/11	EPA 7471B	

Evergreen Analytical - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: **08/30/11 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.49	mg/kg	1	1091201	09/02/11	09/12/11	3060A/7196 A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/30/11 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: NEP - Lazy D3-15Hz

Project Number: NEP 1042
Project Manager: Brett Forkner

Reported:
09/12/11 08:21

Lazy D3-15Hz-A
R108196-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance (EC)	2.39	0.00100 mmhos/cm	1	1090106	09/01/11	09/02/11	SM 2510B
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Date Sampled: **08/30/11 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.8		pH Units	"	1090105	09/01/11	"	EPA 9045B	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **08/30/11 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1360	2.50	mg/kg	1	1090112	09/01/11	09/02/11	EPA 6020/USDA60 6(2, 3A)	
Magnesium	127	1.00	"	"	"	"	"	"	
Sodium	767	5.00	"	"	"	"	"	"	

Date Sampled: **08/30/11 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.33		units	"	1090203	09/02/11	09/02/11	"	

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Arvada CO, 80003

Project: NEP - Lazy D3-15Hz
Project Number: NEP 1042
Project Manager: Brett Forkner

Reported:
09/12/11 08:21

Lazy D3-15Hz-B
R108196-02 (Soil)

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Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/30/11 15:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	630	50	mg/kg	1	1083105	08/31/11	08/31/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/30/11 15:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		109 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/30/11 15:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1083104	08/31/11	08/31/11	EPA 8260B	
Toluene	0.0094	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.019	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.2	0.50	"	"	"	"	"	"	

Date Sampled: **08/30/11 15:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		113 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		99.8 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.6 %	78.4-125		"	"	"	"	

Calculated Analytes

Date Sampled: **08/30/11 15:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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4600 West 60th Avenue
Arvada CO, 80003

Project: NEP - Lazy D3-15Hz

Project Number: NEP 1042
Project Manager: Brett Forkner

Reported:
09/12/11 08:21

Lazy D3-15Hz-B
R108196-02 (Soil)

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Calculated Analytes

Chromium+3 Calculated	22.1	0.480	mg/kg	1	1091201	09/02/11	09/12/11	Calculation
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Total Metals by EPA SW846 Method 6020 - Dry Weight Basis

Date Sampled: **08/30/11 15:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.01	0.0890	mg/kg	1	1090401	09/04/11	09/07/11	EPA 6020A	
Barium	173	4.45	"	"	"	"	"	"	
Cadmium	1.27	0.0890	"	"	"	"	"	"	
Chromium	22.6	0.0890	"	"	"	"	"	"	
Copper	32.5	0.445	"	"	"	"	"	"	
Lead	6.61	0.445	"	"	"	"	"	"	
Nickel	19.0	0.445	"	"	"	"	"	"	
Selenium	2.20	0.0890	"	"	"	"	"	"	
Silver	0.129	0.0890	"	"	"	"	"	"	
Zinc	58.3	4.45	"	"	"	"	"	"	

Total Mercury by EPA SW846 Method 7471/7470

Date Sampled: **08/30/11 15:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0500	mg/kg	1	1090701	09/07/11	09/07/11	EPA 7471B	

Evergreen Analytical - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: **08/30/11 15:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.48	mg/kg	1	1091201	09/02/11	09/12/11	3060A/7196 A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/30/11 15:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Arvada CO, 80003

Project: NEP - Lazy D3-15Hz

Project Number: NEP 1042
Project Manager: Brett Forkner

Reported:
09/12/11 08:21

Lazy D3-15Hz-B
R108196-02 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance (EC)	2.50	0.00100 mmhos/cm	1	1090106	09/01/11	09/02/11	SM 2510B
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Date Sampled: 08/30/11 15:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.0		pH Units	"	1090105	09/01/11	"	EPA 9045B	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: 08/30/11 15:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1100	2.50	mg/kg	1	1090112	09/01/11	09/02/11	EPA 6020/USDA60 6(2, 3A)	
Magnesium	102	1.00	"	"	"	"	"	"	
Sodium	919	5.00	"	"	"	"	"	"	

Date Sampled: 08/30/11 15:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.11		units	"	1090203	09/02/11	09/02/11	"	

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

Project: NEP - Lazy D3-15Hz
Project Number: NEP 1042
Project Manager: Brett Forkner

Reported:
09/12/11 08:21

Lazy D3-15Hz-C
R108196-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/30/11 15:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	6400	50	mg/kg	1	1083105	08/31/11	08/31/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	300	50	"	"	"	"	"	"	

Date Sampled: **08/30/11 15:55**

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: **08/30/11 15:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1083104	08/31/11	09/01/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.0	0.50	"	"	"	"	"	"	

Date Sampled: **08/30/11 15:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		103 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.3 %	78.4-125		"	"	"	"	

Calculated Analytes

Date Sampled: **08/30/11 15:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: NEP - Lazy D3-15Hz

Project Number: NEP 1042
Project Manager: Brett Forkner

Reported:
09/12/11 08:21

Lazy D3-15Hz-C
R108196-03 (Soil)

Summit Scientific

Calculated Analytes

Chromium+3 Calculated	24.2	0.480	mg/kg	1	1091201	09/02/11	09/12/11	Calculation
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Total Metals by EPA SW846 Method 6020 - Dry Weight Basis

Date Sampled: **08/30/11 15:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.83	0.100	mg/kg	1	1090401	09/04/11	09/07/11	EPA 6020A	
Barium	83.3	5.00	"	"	"	"	"	"	
Cadmium	2.09	0.100	"	"	"	"	"	"	
Chromium	24.7	0.100	"	"	"	"	"	"	
Copper	33.9	0.500	"	"	"	"	"	"	
Lead	5.83	0.500	"	"	"	"	"	"	
Nickel	23.5	0.500	"	"	"	"	"	"	
Selenium	3.78	0.100	"	"	"	"	"	"	
Silver	0.139	0.100	"	"	"	"	"	"	
Zinc	66.3	5.00	"	"	"	"	"	"	

Total Mercury by EPA SW846 Method 7471/7470

Date Sampled: **08/30/11 15:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0500	mg/kg	1	1090701	09/07/11	09/07/11	EPA 7471B	

Evergreen Analytical - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: **08/30/11 15:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.48	mg/kg	1	1091201	09/02/11	09/12/11	3060A/7196 A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/30/11 15:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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4600 West 60th Avenue
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Project: NEP - Lazy D3-15Hz

Project Number: NEP 1042
Project Manager: Brett Forkner

Reported:
09/12/11 08:21

Lazy D3-15Hz-C
R108196-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance (EC)	2.73	0.00100 mmhos/cm	1	1090106	09/01/11	09/02/11	SM 2510B
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Date Sampled: **08/30/11 15:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.0		pH Units	"	1090105	09/01/11	"	EPA 9045B	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **08/30/11 15:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1410	2.50	mg/kg	1	1090112	09/01/11	09/02/11	EPA 6020/USDA60 6(2, 3A)	
Magnesium	108	1.00	"	"	"	"	"	"	
Sodium	873	5.00	"	"	"	"	"	"	

Date Sampled: **08/30/11 15:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.03		units	"	1090203	09/02/11	09/02/11	"	

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Project: NEP - Lazy D3-15Hz
Project Number: NEP 1042
Project Manager: Brett Forkner

Reported:
09/12/11 08:21

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 1083105 - EPA 3550A

Blank (1083105-BLK1)

Prepared & Analyzed: 08/31/11

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

Surrogate: o-Terphenyl	13.3	"	12.5	107	88.8-124
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LCS (1083105-BS1)

Prepared & Analyzed: 08/31/11

C10-C28 (TEPH-DRO)	481	50	mg/kg	501	96.1	85-129	11.8
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LCS Dup (1083105-BSD1)

Prepared & Analyzed: 08/31/11

C10-C28 (TEPH-DRO)	481	50	mg/kg	501	96.1	85-129	0.0227	11.8
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Matrix Spike (1083105-MS1)

Source: R108195-09

Prepared & Analyzed: 08/31/11

C10-C28 (TEPH-DRO)	487	50	mg/kg	501	25.6	92.0	77.3-134	8.39
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Matrix Spike Dup (1083105-MSD1)

Source: R108195-09

Prepared & Analyzed: 08/31/11

C10-C28 (TEPH-DRO)	507	50	mg/kg	501	25.6	96.0	77.3-134	4.00	8.39
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4600 West 60th Avenue
Arvada CO, 80003

Project: NEP - Lazy D3-15Hz
Project Number: NEP 1042
Project Manager: Brett Forkner

Reported:
09/12/11 08:21

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 1083104 - EPA 5030 Soil MS

Blank (1083104-BLK1)

Prepared & Analyzed: 08/31/11

Benzene	ND	0.0050	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0379		"	0.0400		94.6	67.4-143			
Surrogate: Toluene-d8	0.0387		"	0.0400		96.8	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0377		"	0.0400		94.4	78.4-125			

LCS (1083104-BS1)

Prepared & Analyzed: 08/31/11

Benzene	0.0965	0.0050	mg/kg	0.100		96.5	61-139		11.1	
Toluene	0.103	0.0050	"	0.100		103	64-132		10.9	
Ethylbenzene	0.110	0.0050	"	0.100		110	68.7-135		20	
m,p-Xylene	0.221	0.010	"	0.200		110	70.4-129		20	
o-Xylene	0.104	0.0050	"	0.100		104	66.9-126		20	
Surrogate: 1,2-Dichloroethane-d4	0.0383		"	0.0400		95.8	67.4-143			
Surrogate: Toluene-d8	0.0382		"	0.0400		95.4	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0366		"	0.0400		91.4	78.4-125			

LCS Dup (1083104-BSD1)

Prepared & Analyzed: 08/31/11

Benzene	0.0948	0.0050	mg/kg	0.100		94.8	61-139	1.72	11.1	
Toluene	0.101	0.0050	"	0.100		101	64-132	2.09	10.9	
Ethylbenzene	0.108	0.0050	"	0.100		108	68.7-135	1.62	20	
m,p-Xylene	0.216	0.010	"	0.200		108	70.4-129	2.39	20	
o-Xylene	0.103	0.0050	"	0.100		103	66.9-126	0.838	20	
Surrogate: 1,2-Dichloroethane-d4	0.0395		"	0.0400		98.8	67.4-143			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.2	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0377		"	0.0400		94.4	78.4-125			

Summit Scientific

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

Project: NEP - Lazy D3-15Hz
Project Number: NEP 1042
Project Manager: Brett Forkner

Reported:
09/12/11 08:21

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 1083104 - EPA 5030 Soil MS

Matrix Spike (1083104-MS1)		Source: R108195-09			Prepared & Analyzed: 08/31/11					
Benzene	0.0963	0.0050	mg/kg	0.100	ND	96.3	42.9-137		17.9	
Toluene	0.102	0.0050	"	0.100	ND	102	42.6-130		11.9	
Ethylbenzene	0.109	0.0050	"	0.100	ND	109	39-133		20	
m,p-Xylene	0.220	0.010	"	0.200	ND	110	34.7-134		20	
o-Xylene	0.107	0.0050	"	0.100	ND	107	41.3-126		20	
Surrogate: 1,2-Dichloroethane-d4	0.0429		"	0.0400		107	67.4-143			
Surrogate: Toluene-d8	0.0396		"	0.0400		99.1	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0400		96.4	78.4-125			

Matrix Spike Dup (1083104-MSD1)		Source: R108195-09			Prepared & Analyzed: 08/31/11					
Benzene	0.0962	0.0050	mg/kg	0.100	ND	96.2	42.9-137	0.0935	17.9	
Toluene	0.101	0.0050	"	0.100	ND	101	42.6-130	0.325	11.9	
Ethylbenzene	0.109	0.0050	"	0.100	ND	109	39-133	0.220	20	
m,p-Xylene	0.218	0.010	"	0.200	ND	109	34.7-134	0.933	20	
o-Xylene	0.104	0.0050	"	0.100	ND	104	41.3-126	2.13	20	
Surrogate: 1,2-Dichloroethane-d4	0.0436		"	0.0400		109	67.4-143			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.5	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0401		"	0.0400		100	78.4-125			

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

Project: NEP - Lazy D3-15Hz
Project Number: NEP 1042
Project Manager: Brett Forkner

Reported:
09/12/11 08:21

Total Metals by EPA SW846 Method 6020 - Dry Weight Basis - Quality Control
Summit Scientific

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

Batch 1090401 - EPA 3050B

Blank (1090401-BLK1)

Prepared: 09/04/11 Analyzed: 09/07/11

Arsenic	ND	0.100	mg/kg
Barium	ND	5.00	"
Cadmium	ND	0.100	"
Chromium	ND	0.100	"
Copper	ND	0.500	"
Lead	ND	0.500	"
Nickel	ND	0.500	"
Selenium	ND	0.100	"
Silver	ND	0.100	"
Zinc	ND	5.00	"

LCS (1090401-BS1)

Prepared: 09/04/11 Analyzed: 09/07/11

Arsenic	2.16	0.100	mg/kg	2.56	84.4	80-120	20
Barium	209	5.00	"	224	93.1	80-120	20
Cadmium	0.941	0.100	"	0.995	94.6	80-120	20
Chromium	9.08	0.100	"	10.2	89.0	80-120	20
Copper	20.3	0.500	"	20.1	101	80-120	20
Lead	67.8	0.500	"	75.0	90.4	80-120	20
Nickel	14.2	0.500	"	15.2	93.6	80-120	20
Selenium	0.951	0.100	"	1.10	86.1	80-120	20
Silver	1.01	0.100	"	1.54	65.9	80-120	20
Zinc	80.1	5.00	"	75.0	107	80-120	20

LCS Dup (1090401-BS1)

Prepared: 09/04/11 Analyzed: 09/07/11

Arsenic	2.31	0.100	mg/kg	2.56	90.4	80-120	6.85	20
Barium	224	5.00	"	224	99.8	80-120	6.95	20
Cadmium	0.960	0.100	"	0.995	96.5	80-120	2.00	20
Chromium	9.45	0.100	"	10.2	92.6	80-120	4.02	20
Copper	20.5	0.500	"	20.1	102	80-120	1.22	20
Lead	71.3	0.500	"	75.0	95.1	80-120	5.09	20
Nickel	14.2	0.500	"	15.2	93.7	80-120	0.171	20
Selenium	0.977	0.100	"	1.10	88.4	80-120	2.64	20
Silver	1.22	0.100	"	1.54	79.1	80-120	18.2	20
Zinc	80.1	5.00	"	75.0	107	80-120	0.0562	20

Summit Scientific

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

Project: NEP - Lazy D3-15Hz
Project Number: NEP 1042
Project Manager: Brett Forkner

Reported:
09/12/11 08:21

Total Metals by EPA SW846 Method 6020 - Dry Weight Basis - Quality Control
Summit Scientific

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

Batch 1090401 - EPA 3050B

Matrix Spike (1090401-MS1)		Source: R108196-03			Prepared: 09/04/11		Analyzed: 09/07/11			
Arsenic	5.60	0.100	mg/kg	2.50	3.83	70.8	75-125		25	QM-07
Barium	301	5.00	"	219	83.3	99.2	75-125		25	
Cadmium	2.93	0.100	"	0.972	2.09	85.8	75-125		25	
Chromium	38.1	0.100	"	9.97	24.7	134	75-125		25	QM-07
Copper	53.2	0.500	"	19.6	33.9	98.5	75-125		25	
Lead	56.6	0.500	"	73.3	5.83	69.2	75-125		25	QM-07
Nickel	40.2	0.500	"	14.8	23.5	112	75-125		25	
Selenium	4.44	0.100	"	1.08	3.78	60.5	75-125		25	QM-07
Silver	1.26	0.100	"	1.50	0.139	74.8	75-125		25	
Zinc	156	5.00	"	73.3	66.3	122	75-125		25	

Matrix Spike Dup (1090401-MSD1)		Source: R108196-03			Prepared: 09/04/11		Analyzed: 09/07/11			
Arsenic	5.18	0.100	mg/kg	2.49	3.83	54.3	75-125	7.70	25	QM-07
Barium	112	5.00	"	219	83.3	13.1	75-125	91.5	25	QM-07
Cadmium	2.71	0.100	"	0.971	2.09	63.7	75-125	7.65	25	QM-07
Chromium	33.9	0.100	"	9.95	24.7	92.6	75-125	11.5	25	
Copper	48.2	0.500	"	19.6	33.9	73.2	75-125	9.84	25	QM-07
Lead	49.7	0.500	"	73.2	5.83	60.0	75-125	12.9	25	QM-07
Nickel	37.2	0.500	"	14.8	23.5	92.3	75-125	7.75	25	
Selenium	4.40	0.100	"	1.08	3.78	57.2	75-125	0.844	25	QM-07
Silver	1.14	0.100	"	1.50	0.139	66.5	75-125	10.6	25	
Zinc	138	5.00	"	73.2	66.3	98.2	75-125	11.9	25	

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

Project: NEP - Lazy D3-15Hz
Project Number: NEP 1042
Project Manager: Brett Forkner

Reported:
09/12/11 08:21

Total Mercury by EPA SW846 Method 7471/7470 - Quality Control
Summit Scientific

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

Batch 1090701 - EPA 7471A

Blank (1090701-BLK1)

Prepared & Analyzed: 09/07/11

Mercury ND 0.0500 mg/kg

LCS (1090701-BS1)

Prepared & Analyzed: 09/07/11

Mercury 0.345 0.0500 mg/kg 0.400 86.3 80-120 20

LCS Dup (1090701-BSD1)

Prepared & Analyzed: 09/07/11

Mercury 0.353 0.0500 mg/kg 0.400 88.1 80-120 2.15 20

Matrix Spike (1090701-MS1)

Source: R108196-01

Prepared & Analyzed: 09/07/11

Mercury 0.285 0.0500 mg/kg 0.277 0.0312 91.6 75-125 20

Matrix Spike Dup (1090701-MSD1)

Source: R108196-01

Prepared & Analyzed: 09/07/11

Mercury 0.296 0.0500 mg/kg 0.292 0.0312 90.8 75-125 3.82 20

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

Project: NEP - Lazy D3-15Hz

Project Number: NEP 1042
Project Manager: Brett Forkner

Reported:
09/12/11 08:21

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 1090105 - General Preparation

Duplicate (1090105-DUP1) **Source: R108196-01** Prepared: 09/01/11 Analyzed: 09/02/11

pH	7.8		pH Units	7.8		0.257	20
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Batch 1090106 - General Preparation

Duplicate (1090106-DUP1) **Source: R108196-01** Prepared: 09/01/11 Analyzed: 09/02/11

Specific Conductance (EC)	2.77	0.00100	mmhos/cm	2.39		14.8	20
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Summit Scientific

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

Project: NEP - Lazy D3-15Hz
Project Number: NEP 1042
Project Manager: Brett Forkner

Reported:
09/12/11 08:21

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis - Quality Control
Summit Scientific

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

Batch 1090112 - General Preparation

Blank (1090112-BLK1)

Prepared: 09/01/11 Analyzed: 09/02/11

Calcium	ND	2.50	mg/kg							
Magnesium	ND	1.00	"							
Sodium	ND	5.00	"							

LCS (1090112-BS1)

Prepared: 09/01/11 Analyzed: 09/02/11

Calcium	202	2.50	mg/kg	200	101	70-130		25		
Magnesium	84.6	1.00	"	80.0	106	70-130		25		
Sodium	430	5.00	"	400	108	70-130		25		

LCS Dup (1090112-BSD1)

Prepared: 09/01/11 Analyzed: 09/02/11

Calcium	205	2.50	mg/kg	200	103	70-130	1.37	25		
Magnesium	85.0	1.00	"	80.0	106	70-130	0.557	25		
Sodium	429	5.00	"	400	107	70-130	0.237	25		

Matrix Spike (1090112-MS1)

Source: R108196-02

Prepared: 09/01/11 Analyzed: 09/02/11

Calcium	1080	2.50	mg/kg	166	1100	NR	70-130	25		QM-07
Magnesium	127	1.00	"	66.2	102	36.9	70-130	25		QM-07
Sodium	1370	5.00	"	331	919	135	70-130	25		QM-07

Matrix Spike Dup (1090112-MSD1)

Source: R108196-02

Prepared: 09/01/11 Analyzed: 09/02/11

Calcium	1270	2.50	mg/kg	159	1100	106	70-130	16.2	25	
Magnesium	144	1.00	"	63.8	102	64.3	70-130	12.2	25	QM-07
Sodium	1350	5.00	"	319	919	136	70-130	1.07	25	QM-07

Summit Scientific

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

Project: NEP - Lazy D3-15Hz

Project Number: NEP 1042
Project Manager: Brett Forkner

Reported:
09/12/11 08:21

Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.

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

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