

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

June 05, 2014

Jake Janicek
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: NEP - 1J

Enclosed are the results of analyses for samples received by Summit Scientific on 06/04/14 10:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Ben Shrewsbury
President / Laboratory Manager



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

Project: NEP - 1J

Project Number: 0083-14036
Project Manager: Jake Janicek

Reported:
06/05/14 22:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PH02@18'	1406020-01	Soil	06/02/14 10:15	06/04/14 10:30
PH02@25'	1406020-02	Soil	06/02/14 10:35	06/04/14 10:30
PH03@5'	1406020-03	Soil	06/03/14 08:30	06/04/14 10:30
PH03@15'	1406020-04	Soil	06/03/14 08:50	06/04/14 10:30
PH01@10'	1406020-05	Soil	06/03/14 09:50	06/04/14 10:30
PH01@28'	1406020-06	Soil	06/03/14 11:05	06/04/14 10:30

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

Project: NEP - 1J

Project Number: 0083-14036
Project Manager: Jake Janicek

Reported:
06/05/14 22:11

1406020

Summit Scientific

5:

741 Corporate Circle, Suite 100K • Golden, Colorado 80401
303-277-9310 • 303-374-5933

Client: LT Environmental
Project Manager: Jake Janicek
Address: 816 N. Main St. Unit B
City/State/Zip: Englewood, CO 80150
Phone: 374-985-4165 Fax:
Sampler Name: Dormer H&G
Project Name: 1
Project Number: 0083-14036

Page 1 of 1

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative			Matrix			Analysis Requested	Special Instructions	
					HCl	HNO3	Zone	Other (Specify)	Groundwater	Soil			Air-Canister #
1	PH 02.08'	6/2/14	08:30	2		X							
2	PH 02.08' 25'	6/2/14	10:35	2		X							
3	PH 03.05'	6/2/14	08:30	2		X							
4	PH 03.05' 15'	6/2/14	08:50	2		X							
5	PH 01.10'	6/3/14	09:50	2		X							
6	PH 01.25'	6/2/14	11:05	2		X							
7													
8													
9													
10													

Relinquished by: <u>[Signature]</u> Date/Time: <u>6/3/14 1:30</u>	Received by: <u>[Signature]</u> Date/Time: <u>6/4/14 10:30</u>	Turn Around Time (Check) Same Day <input type="checkbox"/> 24 hours <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/>	Notes: * Please check Bill Heller Wendy
Relinquished by: _____ Date/Time: _____	Received by: _____ Date/Time: _____	Sample Integrity: Temperature Upon Receipt: <u>5.9</u> Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

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

Project: NEP - 1J
Project Number: 0083-14036
Project Manager: Jake Janicek

Reported:
06/05/14 22:11

PH02@18'
1406020-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/14 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	1300	50	mg/kg	1	1406024	06/04/14	06/04/14	8015M	

Date Sampled: **06/02/14 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		102 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/14 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.47	0.020	mg/kg	10	1406025	06/04/14	06/04/14	EPA 8260B	
Toluene	12	0.050	"	"	"	"	"	"	E
Ethylbenzene	4.3	0.050	"	"	"	"	"	"	
Xylenes (total)	62	0.050	"	"	"	"	"	"	E
Gasoline Range Hydrocarbons	800	5.0	"	"	"	"	"	"	

Date Sampled: **06/02/14 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		149 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		146 %	21-167		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **06/02/14 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	1406028	06/04/14	06/04/14	EPA 8270D SIM	
Acenaphthylene	ND	0.00500	"	"	"	"	"	"	

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Project: NEP - 1J

Project Number: 0083-14036
Project Manager: Jake Janicek

Reported:
06/05/14 22:11

PH02@18'
1406020-01 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	1406028	06/04/14	06/04/14	EPA 8270D SIM	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.00995	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
Naphthalene	1.64	0.0500	"	10	"	"	"	"	
Phenanthrene	0.218	0.0500	"	"	"	"	"	"	
Pyrene	0.00808	0.00500	"	1	"	"	"	"	

Date Sampled: **06/02/14 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		113 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		95.2 %	50-150		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **06/02/14 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	9.73	0.873	mg/kg dry	1	1406017	06/03/14	06/04/14	EPA 6020A	
Barium	3160	0.873	"	"	"	"	"	"	PRELM
Cadmium	ND	0.873	"	"	"	"	"	"	
Chromium	13.4	4.37	"	"	"	"	"	"	
Copper	20.6	4.37	"	"	"	"	"	"	PRELM
Lead	12.7	0.873	"	"	"	"	"	"	PRELM
Nickel	18.1	0.873	"	"	"	"	"	"	
Selenium	ND	0.437	"	"	"	"	"	"	
Silver	ND	0.873	"	"	"	"	"	"	

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Project: NEP - 1J

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Project Manager: Jake Janicek

Reported:
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PH02@18'
1406020-01 (Soil)

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Total Metals by EPA Method 6020 - Dry Weight Basis

Zinc	ND	87.3 mg/kg dry	1	1406017	06/03/14	06/04/14	EPA 6020A
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Total Mercury by EPA Method 7471/7470/245.1

Date Sampled: **06/02/14 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0368	mg/kg dry	1	1406034	06/05/14	06/05/14	EPA 7471	

Hexavalent Chromium by EPA 7196

Date Sampled: **06/02/14 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	2.46	mg/kg dry	1	1406026	06/04/14	06/05/14	EPA 7196	

Calculated Analytes

Date Sampled: **06/02/14 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	10.9	1.00	mg/kg	1	1406043	06/05/14	06/05/14	Calculation	

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

Date Sampled: **06/02/14 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1870	12.3	mg/kg dry	1	1406023	06/04/14	06/04/14	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	674	6.14	"	"	"	"	"	"	
Sodium	1940	6.14	"	"	"	"	"	"	

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Project: NEP - 1J

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Project Manager: Jake Janicek

Reported:
06/05/14 22:11

PH02@18'
1406020-01 (Soil)

Summit Scientific

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

Date Sampled: **06/02/14 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.78		units	1	1406037	06/05/14	06/05/14	EPA 6020/Mod. USDA60 6(2, 3A)	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/14 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.51	0.0100	mmhos/cm	1	1406031	06/04/14	06/04/14	SM 2510B	

Date Sampled: **06/02/14 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.94	0.100	pH Units	"	1406032	06/04/14	06/04/14	EPA 9045	

Date Sampled: **06/02/14 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.4		%	"	1406036	06/05/14	06/05/14	% calculation	

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Project: NEP - 1J
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Reported:
06/05/14 22:11

PH02@25'
1406020-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/14 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	140	50	mg/kg	1	1406024	06/04/14	06/04/14	8015M	

Date Sampled: **06/02/14 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		104 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/14 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.0029	0.0020	mg/kg	1	1406025	06/04/14	06/04/14	EPA 8260B	
Toluene	0.025	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.042	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.77	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	21	0.50	"	"	"	"	"	"	

Date Sampled: **06/02/14 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		121 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		116 %	21-167		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **06/02/14 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	1406028	06/04/14	06/04/14	EPA 8270D SIM	
Acenaphthylene	ND	0.00500	"	"	"	"	"	"	

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Project: NEP - 1J

Project Number: 0083-14036
Project Manager: Jake Janicek

Reported:
06/05/14 22:11

PH02@25'
1406020-02 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	1406028	06/04/14	06/04/14	EPA 8270D SIM	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0169	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
Naphthalene	0.101	0.00500	"	"	"	"	"	"	
Phenanthrene	0.0180	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/02/14 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		81.4 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		81.3 %	50-150		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **06/02/14 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	7.75	0.796	mg/kg dry	1	1406017	06/03/14	06/04/14	EPA 6020A	
Barium	459	0.796	"	"	"	"	"	"	PRELM
Cadmium	ND	0.796	"	"	"	"	"	"	
Chromium	10.2	3.98	"	"	"	"	"	"	
Copper	16.5	3.98	"	"	"	"	"	"	PRELM
Lead	9.61	0.796	"	"	"	"	"	"	PRELM
Nickel	17.6	0.796	"	"	"	"	"	"	
Selenium	ND	0.398	"	"	"	"	"	"	
Silver	ND	0.796	"	"	"	"	"	"	

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Project: NEP - 1J
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Project Manager: Jake Janicek

Reported:
06/05/14 22:11

PH02@25'
1406020-02 (Soil)

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Total Metals by EPA Method 6020 - Dry Weight Basis

Zinc	ND	79.6 mg/kg dry	1	1406017	06/03/14	06/04/14	EPA 6020A
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Total Mercury by EPA Method 7471/7470/245.1

Date Sampled: **06/02/14 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0351	mg/kg dry	1	1406034	06/05/14	06/05/14	EPA 7471	

Hexavalent Chromium by EPA 7196

Date Sampled: **06/02/14 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	2.35	mg/kg dry	1	1406026	06/04/14	06/05/14	EPA 7196	

Calculated Analytes

Date Sampled: **06/02/14 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	7.85	1.00	mg/kg	1	1406043	06/05/14	06/05/14	Calculation	

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

Date Sampled: **06/02/14 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1000	11.7	mg/kg dry	1	1406023	06/04/14	06/04/14	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	374	5.87	"	"	"	"	"	"	
Sodium	1430	5.87	"	"	"	"	"	"	

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 06/05/14 22:11

PH02@25'
1406020-02 (Soil)

Summit Scientific

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

Date Sampled: **06/02/14 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.79		units	1	1406037	06/05/14	06/05/14	EPA 6020/Mod. USDA60 6(2, 3A)	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/14 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.18	0.0100	mmhos/cm	1	1406031	06/04/14	06/04/14	SM 2510B	

Date Sampled: **06/02/14 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.51	0.100	pH Units	"	1406032	06/04/14	06/04/14	EPA 9045	

Date Sampled: **06/02/14 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.2		%	"	1406036	06/05/14	06/05/14	% calculation	

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Reported:
06/05/14 22:11

PH03@5'
1406020-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/03/14 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	170	50	mg/kg	1	1406024	06/04/14	06/04/14	8015M	

Date Sampled: **06/03/14 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		106 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/03/14 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.019	0.0020	mg/kg	1	1406025	06/04/14	06/04/14	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.10	0.0050	"	"	"	"	"	"	
Xylenes (total)	1.1	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	36	0.50	"	"	"	"	"	"	

Date Sampled: **06/03/14 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		111 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		86.8 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		136 %	21-167		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **06/03/14 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0170	0.00500	mg/kg	1	1406028	06/04/14	06/04/14	EPA 8270D SIM	
Acenaphthylene	ND	0.00500	"	"	"	"	"	"	

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Project: NEP - 1J

Project Number: 0083-14036
Project Manager: Jake Janicek

Reported:
06/05/14 22:11

PH03@5'
1406020-03 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	1406028	06/04/14	06/04/14	EPA 8270D SIM	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.00511	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0581	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
Naphthalene	0.162	0.00500	"	"	"	"	"	"	
Phenanthrene	0.113	0.00500	"	"	"	"	"	"	
Pyrene	0.0137	0.00500	"	"	"	"	"	"	

Date Sampled: **06/03/14 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		83.2 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		84.1 %	50-150		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **06/03/14 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	10.3	0.957	mg/kg dry	1	1406017	06/03/14	06/04/14	EPA 6020A	
Barium	4880	0.957	"	"	"	"	"	"	PRELM
Cadmium	ND	0.957	"	"	"	"	"	"	
Chromium	15.8	4.78	"	"	"	"	"	"	
Copper	34.3	4.78	"	"	"	"	"	"	PRELM
Lead	14.1	0.957	"	"	"	"	"	"	PRELM
Nickel	20.9	0.957	"	"	"	"	"	"	
Selenium	ND	0.478	"	"	"	"	"	"	
Silver	ND	0.957	"	"	"	"	"	"	PRELM

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

Project: NEP - 1J

Project Number: 0083-14036
Project Manager: Jake Janicek

Reported:
06/05/14 22:11

PH03@5'
1406020-03 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Zinc	ND	95.7 mg/kg dry	1	1406017	06/03/14	06/04/14	EPA 6020A
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Total Mercury by EPA Method 7471/7470/245.1

Date Sampled: **06/03/14 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0416	mg/kg dry	1	1406034	06/05/14	06/05/14	EPA 7471	

Hexavalent Chromium by EPA 7196

Date Sampled: **06/03/14 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	2.87	mg/kg dry	1	1406026	06/04/14	06/05/14	EPA 7196	

Calculated Analytes

Date Sampled: **06/03/14 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	12.9	1.00	mg/kg	1	1406043	06/05/14	06/05/14	Calculation	

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

Date Sampled: **06/03/14 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1700	14.4	mg/kg dry	1	1406023	06/04/14	06/04/14	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	563	7.18	"	"	"	"	"	"	
Sodium	1370	7.18	"	"	"	"	"	"	

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

Project: NEP - 1J

Project Number: 0083-14036
 Project Manager: Jake Janicek

Reported:
 06/05/14 22:11

PH03@5'
1406020-03 (Soil)

Summit Scientific

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

Date Sampled: **06/03/14 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.36		units	1	1406037	06/05/14	06/05/14	EPA 6020/Mod. USDA60 6(2, 3A)	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/03/14 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.05	0.0100	mmhos/cm	1	1406031	06/04/14	06/04/14	SM 2510B	

Date Sampled: **06/03/14 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.18	0.100	pH Units	"	1406032	06/04/14	06/04/14	EPA 9045	

Date Sampled: **06/03/14 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	69.6		%	"	1406036	06/05/14	06/05/14	% calculation	

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

Project: NEP - 1J

Project Number: 0083-14036
Project Manager: Jake Janicek

Reported:
06/05/14 22:11

PH03@15'
1406020-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/03/14 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1406024	06/04/14	06/04/14	8015M	

Date Sampled: **06/03/14 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		110 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/03/14 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1406025	06/04/14	06/04/14	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/03/14 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane- <i>d</i> 4		109 %	23-173		"	"	"	"	
Surrogate: Toluene- <i>d</i> 8		98.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.7 %	21-167		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **06/03/14 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	1406028	06/04/14	06/04/14	EPA 8270D SIM	
Acenaphthylene	ND	0.00500	"	"	"	"	"	"	

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

Project: NEP - 1J

Project Number: 0083-14036
Project Manager: Jake Janicek

Reported:
06/05/14 22:11

PH03@15'
1406020-04 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	1406028	06/04/14	06/04/14	EPA 8270D SIM	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
Naphthalene	ND	0.00500	"	"	"	"	"	"	
Phenanthrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/03/14 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		75.4 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		80.6 %	50-150		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **06/03/14 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	10.4	0.749	mg/kg dry	1	1406017	06/03/14	06/04/14	EPA 6020A	
Barium	156	0.749	"	"	"	"	"	"	PRELM
Cadmium	ND	0.749	"	"	"	"	"	"	
Chromium	14.2	3.75	"	"	"	"	"	"	
Copper	23.6	3.75	"	"	"	"	"	"	PRELM
Lead	18.7	0.749	"	"	"	"	"	"	PRELM
Nickel	25.4	0.749	"	"	"	"	"	"	
Selenium	ND	0.375	"	"	"	"	"	"	
Silver	ND	0.749	"	"	"	"	"	"	

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

Project: NEP - 1J

Project Number: 0083-14036
Project Manager: Jake Janicek

Reported:
06/05/14 22:11

PH03@15'
1406020-04 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Zinc	ND	74.9 mg/kg dry	1	1406017	06/03/14	06/04/14	EPA 6020A
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Total Mercury by EPA Method 7471/7470/245.1

Date Sampled: **06/03/14 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0493	mg/kg dry	1	1406034	06/05/14	06/05/14	EPA 7471	

Hexavalent Chromium by EPA 7196

Date Sampled: **06/03/14 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	2.37	mg/kg dry	1	1406026	06/04/14	06/05/14	EPA 7196	

Calculated Analytes

Date Sampled: **06/03/14 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	11.8	1.00	mg/kg	1	1406043	06/05/14	06/05/14	Calculation	

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

Date Sampled: **06/03/14 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	254	10.6	mg/kg dry	1	1406023	06/04/14	06/04/14	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	130	5.32	"	"	"	"	"	"	
Sodium	1340	5.32	"	"	"	"	"	"	

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

Project: NEP - 1J

Project Number: 0083-14036
Project Manager: Jake Janicek

Reported:
06/05/14 22:11

PH03@15'
1406020-04 (Soil)

Summit Scientific

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

Date Sampled: **06/03/14 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	17.0		units	1	1406037	06/05/14	06/05/14	EPA 6020/Mod. USDA60 6(2, 3A)	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/03/14 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.78	0.0100	mmhos/cm	1	1406031	06/04/14	06/04/14	SM 2510B	

Date Sampled: **06/03/14 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.65	0.100	pH Units	"	1406032	06/04/14	06/04/14	EPA 9045	

Date Sampled: **06/03/14 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.5		%	"	1406036	06/05/14	06/05/14	% calculation	

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

Project: NEP - 1J
Project Number: 0083-14036
Project Manager: Jake Janicek

Reported:
06/05/14 22:11

PH01@10'
1406020-05 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/03/14 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	4300	50	mg/kg	1	1406024	06/04/14	06/04/14	8015M	

Date Sampled: **06/03/14 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		27.4 %	30-150		"	"	"	"	S-02

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/03/14 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.060	0.020	mg/kg	10	1406025	06/04/14	06/04/14	EPA 8260B	
Toluene	0.44	0.050	"	"	"	"	"	"	
Ethylbenzene	0.89	0.050	"	"	"	"	"	"	
Xylenes (total)	16	0.050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	680	5.0	"	"	"	"	"	"	

Date Sampled: **06/03/14 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.7 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		134 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		158 %	21-167		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **06/03/14 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.0500	mg/kg	10	1406028	06/04/14	06/05/14	EPA 8270D SIM	R-01
Acenaphthylene	ND	0.0500	"	"	"	"	"	"	R-01

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

Project: NEP - 1J

Project Number: 0083-14036
Project Manager: Jake Janicek

Reported:
06/05/14 22:11

PH01@10'
1406020-05 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.0500	mg/kg	10	1406028	06/04/14	06/05/14	EPA 8270D SIM	R-01
Benzo (a) anthracene	ND	0.0500	"	"	"	"	"	"	R-01
Benzo (b) fluoranthene	ND	0.0500	"	"	"	"	"	"	R-01
Benzo (k) fluoranthene	ND	0.0500	"	"	"	"	"	"	R-01
Benzo (g,h,i) perylene	ND	0.0500	"	"	"	"	"	"	R-01
Benzo (a) pyrene	ND	0.0500	"	"	"	"	"	"	R-01
Chrysene	0.150	0.0500	"	"	"	"	"	"	R-01
Dibenz (a,h) anthracene	ND	0.0500	"	"	"	"	"	"	R-01
Fluoranthene	ND	0.0500	"	"	"	"	"	"	R-01
Fluorene	1.01	0.0500	"	"	"	"	"	"	R-01
Indeno (1,2,3-cd) pyrene	ND	0.0500	"	"	"	"	"	"	R-01
2-Methylnaphthalene	ND	0.0500	"	"	"	"	"	"	R-01
Naphthalene	7.04	0.500	"	100	"	"	06/05/14	"	R-01
Phenanthrene	0.969	0.500	"	"	"	"	"	"	R-01
Pyrene	0.0728	0.0500	"	10	"	"	06/05/14	"	R-01

Date Sampled: **06/03/14 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		103 %	50-150		"	"	"	"	R-01
Surrogate: Fluoranthene-d10		95.6 %	50-150		"	"	"	"	R-01

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **06/03/14 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	12.0	1.14	mg/kg dry	1	1406017	06/03/14	06/04/14	EPA 6020A	
Barium	2740	1.14	"	"	"	"	"	"	PRELM
Cadmium	ND	1.14	"	"	"	"	"	"	
Chromium	16.3	5.71	"	"	"	"	"	"	
Copper	23.8	5.71	"	"	"	"	"	"	PRELM
Lead	16.5	1.14	"	"	"	"	"	"	PRELM
Nickel	25.2	1.14	"	"	"	"	"	"	
Selenium	ND	0.571	"	"	"	"	"	"	
Silver	ND	1.14	"	"	"	"	"	"	

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

Project: NEP - 1J
Project Number: 0083-14036
Project Manager: Jake Janicek

Reported:
06/05/14 22:11

PH01@10'
1406020-05 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Zinc	ND	114 mg/kg dry	1	1406017	06/03/14	06/04/14	EPA 6020A
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Total Mercury by EPA Method 7471/7470/245.1

Date Sampled: **06/03/14 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0484	mg/kg dry	1	1406034	06/05/14	06/05/14	EPA 7471	

Hexavalent Chromium by EPA 7196

Date Sampled: **06/03/14 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	2.76	mg/kg dry	1	1406026	06/04/14	06/05/14	EPA 7196	

Calculated Analytes

Date Sampled: **06/03/14 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	13.5	1.00	mg/kg	1	1406043	06/05/14	06/05/14	Calculation	

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

Date Sampled: **06/03/14 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2750	13.8	mg/kg dry	1	1406023	06/04/14	06/04/14	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	958	6.91	"	"	"	"	"	"	
Sodium	2510	6.91	"	"	"	"	"	"	

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

Project: NEP - 1J

Project Number: 0083-14036
 Project Manager: Jake Janicek

Reported:
 06/05/14 22:11

PH01@10'
1406020-05 (Soil)

Summit Scientific

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

Date Sampled: **06/03/14 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	10.5		units	1	1406037	06/05/14	06/05/14	EPA 6020/Mod. USDA60 6(2, 3A)	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/03/14 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.98	0.0100	mmhos/cm	1	1406031	06/04/14	06/04/14	SM 2510B	

Date Sampled: **06/03/14 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.26	0.100	pH Units	"	1406032	06/04/14	06/04/14	EPA 9045	

Date Sampled: **06/03/14 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	72.4		%	"	1406036	06/05/14	06/05/14	% calculation	

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

Project: NEP - 1J
Project Number: 0083-14036
Project Manager: Jake Janicek

Reported:
06/05/14 22:11

PH01@28'
1406020-06 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/03/14 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	570	50	mg/kg	1	1406024	06/04/14	06/04/14	8015M	

Date Sampled: **06/03/14 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		118 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/03/14 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.054	0.020	mg/kg	10	1406025	06/04/14	06/04/14	EPA 8260B	
Toluene	0.81	0.050	"	"	"	"	"	"	
Ethylbenzene	0.68	0.050	"	"	"	"	"	"	
Xylenes (total)	11	0.050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	480	5.0	"	"	"	"	"	"	

Date Sampled: **06/03/14 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.4 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		121 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		143 %	21-167		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **06/03/14 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	1406028	06/04/14	06/05/14	EPA 8270D SIM	
Acenaphthylene	ND	0.00500	"	"	"	"	"	"	

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PH01@28'
1406020-06 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	1406028	06/04/14	06/05/14	EPA 8270D SIM	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	"
Chrysene	0.0113	0.00500	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Fluorene	0.0916	0.00500	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"
Naphthalene	0.905	0.0500	"	10	"	"	06/05/14	"	"
Phenanthrene	0.128	0.00500	"	1	"	"	06/05/14	"	"
Pyrene	0.00645	0.00500	"	"	"	"	"	"	"

Date Sampled: **06/03/14 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		76.8 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		85.1 %	50-150		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **06/03/14 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	9.75	0.940	mg/kg dry	1	1406017	06/03/14	06/04/14	EPA 6020A	
Barium	1100	0.940	"	"	"	"	"	"	PRELM
Cadmium	ND	0.940	"	"	"	"	"	"	
Chromium	14.4	4.70	"	"	"	"	"	"	
Copper	20.9	4.70	"	"	"	"	"	"	PRELM
Lead	11.3	0.940	"	"	"	"	"	"	PRELM
Nickel	25.1	0.940	"	"	"	"	"	"	
Selenium	ND	0.470	"	"	"	"	"	"	
Silver	ND	0.940	"	"	"	"	"	"	

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PH01@28'
1406020-06 (Soil)

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Total Metals by EPA Method 6020 - Dry Weight Basis

Zinc	ND	94.0 mg/kg dry	1	1406017	06/03/14	06/04/14	EPA 6020A
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Total Mercury by EPA Method 7471/7470/245.1

Date Sampled: **06/03/14 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0442	mg/kg dry	1	1406034	06/05/14	06/05/14	EPA 7471	

Hexavalent Chromium by EPA 7196

Date Sampled: **06/03/14 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	2.43	mg/kg dry	1	1406026	06/04/14	06/05/14	EPA 7196	

Calculated Analytes

Date Sampled: **06/03/14 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	12.0	1.00	mg/kg	1	1406043	06/05/14	06/05/14	Calculation	

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

Date Sampled: **06/03/14 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1970	12.1	mg/kg dry	1	1406023	06/04/14	06/04/14	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	880	6.07	"	"	"	"	"	"	
Sodium	1170	6.07	"	"	"	"	"	"	

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1406020-06 (Soil)

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

Date Sampled: **06/03/14 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.51		units	1	1406037	06/05/14	06/05/14	EPA 6020/Mod. USDA60 6(2, 3A)	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/03/14 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.95	0.0100	mmhos/cm	1	1406031	06/04/14	06/04/14	SM 2510B	

Date Sampled: **06/03/14 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.07	0.100	pH Units	"	1406032	06/04/14	06/04/14	EPA 9045	

Date Sampled: **06/03/14 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.4		%	"	1406036	06/05/14	06/05/14	% calculation	

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Reported:
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Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1406024 - EPA 3550A

Blank (1406024-BLK1)				Prepared & Analyzed: 06/04/14							
C10-C28 (DRO)	ND	50	mg/kg								
LCS (1406024-BS1)				Prepared & Analyzed: 06/04/14							
C10-C28 (DRO)	540	50	mg/kg	501	108	73-134					
Matrix Spike (1406024-MS1)				Source: 1406020-01		Prepared & Analyzed: 06/04/14					
C10-C28 (DRO)	2640	50	mg/kg	501	1250	278	50-148				QM-07
Matrix Spike Dup (1406024-MSD1)				Source: 1406020-01		Prepared & Analyzed: 06/04/14					
C10-C28 (DRO)	2640	50	mg/kg	501	1250	276	50-148	0.204	13		QM-07

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch 1406025 - EPA 5030 Soil MS

Blank (1406025-BLK1)

Prepared & Analyzed: 06/04/14

Benzene	ND	0.0020	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	0.0351		"	0.0388		90.5	23-173			
Surrogate: Toluene-d8	0.0384		"	0.0391		98.2	20-170			
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0391		96.2	21-167			

LCS (1406025-BS1)

Prepared & Analyzed: 06/04/14

Benzene	0.0835	0.0020	mg/kg	0.0988		84.5	58-130			
Toluene	0.0850	0.0050	"	0.0988		86.0	61-134			
Ethylbenzene	0.0858	0.0050	"	0.0980		87.6	74-139			
m,p-Xylene	0.170	0.010	"	0.197		86.2	73-137			
o-Xylene	0.0807	0.0050	"	0.0972		83.0	73-141			
Surrogate: 1,2-Dichloroethane-d4	0.0356		"	0.0392		90.7	23-173			
Surrogate: Toluene-d8	0.0385		"	0.0395		97.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0395		99.4	21-167			

Matrix Spike (1406025-MS1)

Source: 1406020-03

Prepared & Analyzed: 06/04/14

Benzene	0.136	0.0020	mg/kg	0.0986	0.0188	119	30-131			
Toluene	0.122	0.0050	"	0.0986	ND	124	30-134			
Ethylbenzene	0.187	0.0050	"	0.0978	0.105	83.9	22-153			
m,p-Xylene	0.898	0.010	"	0.197	0.966	NR	10-159			QM-07
o-Xylene	0.177	0.0050	"	0.0970	0.0909	88.2	31-151			
Surrogate: 1,2-Dichloroethane-d4	0.0449		"	0.0392		115	23-173			
Surrogate: Toluene-d8	0.0510		"	0.0394		129	20-170			
Surrogate: 4-Bromofluorobenzene	0.0441		"	0.0394		112	21-167			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch 1406025 - EPA 5030 Soil MS

Matrix Spike Dup (1406025-MSD1)	Source: 1406020-03			Prepared & Analyzed: 06/04/14						
Benzene	0.136	0.0020	mg/kg	0.0945	0.0188	124	30-131	0.166	34	
Toluene	0.123	0.0050	"	0.0945	ND	131	30-134	0.818	30	
Ethylbenzene	0.190	0.0050	"	0.0938	0.105	91.0	22-153	1.70	24	
m,p-Xylene	0.913	0.010	"	0.189	0.966	NR	10-159	1.62	68	QM-07
o-Xylene	0.171	0.0050	"	0.0930	0.0909	85.8	31-151	3.35	38	
Surrogate: 1,2-Dichloroethane-d4	0.0451		"	0.0375		120	23-173			
Surrogate: Toluene-d8	0.0442		"	0.0378		117	20-170			
Surrogate: 4-Bromofluorobenzene	0.0431		"	0.0378		114	21-167			

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Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch 1406028 - EPA 5030 Soil MS

Blank (1406028-BLK1)

Prepared & Analyzed: 06/04/14

Acenaphthene	ND	0.00500	mg/kg							
Acenaphthylene	ND	0.00500	"							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Benzo (g,h,i) perylene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Naphthalene	ND	0.00500	"							
Phenanthrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0280</i>		<i>"</i>	<i>0.0344</i>		<i>81.3</i>	<i>50-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0309</i>		<i>"</i>	<i>0.0346</i>		<i>89.3</i>	<i>50-150</i>			

LCS (1406028-BS1)

Prepared & Analyzed: 06/04/14

Acenaphthene	0.0239	0.00500	mg/kg	0.0331		72.3	50-150			
Acenaphthylene	0.0236	0.00500	"	0.0331		71.4	50-150			
Anthracene	0.0250	0.00500	"	0.0331		75.5	50-150			
Benzo (a) anthracene	0.0208	0.00500	"	0.0331		62.8	50-150			
Benzo (b) fluoranthene	0.0318	0.00500	"	0.0331		96.0	50-150			
Benzo (k) fluoranthene	0.0309	0.00500	"	0.0331		93.2	50-150			
Benzo (g,h,i) perylene	0.0302	0.00500	"	0.0331		91.3	50-150			
Benzo (a) pyrene	0.0313	0.00500	"	0.0331		94.5	50-150			
Chrysene	0.0191	0.00500	"	0.0331		57.6	50-150			
Dibenz (a,h) anthracene	0.0313	0.00500	"	0.0331		94.5	50-150			
Fluoranthene	0.0252	0.00500	"	0.0331		76.0	50-150			
Fluorene	0.0240	0.00500	"	0.0331		72.4	50-150			
Indeno (1,2,3-cd) pyrene	0.0314	0.00500	"	0.0331		94.8	50-150			
2-Methylnaphthalene	ND	0.00500	"				0-200			
Naphthalene	0.0235	0.00500	"	0.0331		70.9	50-150			
Phenanthrene	0.0250	0.00500	"	0.0331		75.5	50-150			
Pyrene	0.0203	0.00500	"	0.0331		61.4	50-150			

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Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch 1406028 - EPA 5030 Soil MS

LCS (1406028-BS1)

Prepared & Analyzed: 06/04/14

Surrogate: 2-Methylnaphthalene-d10	0.0249		mg/kg	0.0344		72.5	50-150		
Surrogate: Fluoranthene-d10	0.0275		"	0.0346		79.5	50-150		

Duplicate (1406028-DUP1)

Source: 1406020-03

Prepared & Analyzed: 06/04/14

Acenaphthene	0.0108	0.00500	mg/kg		0.0170			44.8	200
Acenaphthylene	ND	0.00500	"		ND				200
Anthracene	ND	0.00500	"		ND				200
Benzo (a) anthracene	0.00317	0.00500	"		0.00422			28.5	200
Benzo (b) fluoranthene	ND	0.00500	"		0.00256				200
Benzo (k) fluoranthene	ND	0.00500	"		0.00260				200
Benzo (g,h,i) perylene	ND	0.00500	"		ND				200
Benzo (a) pyrene	ND	0.00500	"		0.00278				200
Chrysene	0.00326	0.00500	"		0.00511			44.1	200
Dibenz (a,h) anthracene	ND	0.00500	"		ND				200
Fluoranthene	0.00282	0.00500	"		ND				200
Fluorene	0.0383	0.00500	"		0.0581			41.1	200
Indeno (1,2,3-cd) pyrene	ND	0.00500	"		ND				200
2-Methylnaphthalene	ND	0.00500	"		ND				200
Naphthalene	0.134	0.00500	"		0.162			18.6	200
Phenanthrene	0.0756	0.00500	"		0.113			39.4	200
Pyrene	0.00945	0.00500	"		0.0137			36.4	200
Surrogate: 2-Methylnaphthalene-d10	0.0271		"	0.0343		79.1	50-150		
Surrogate: Fluoranthene-d10	0.0281		"	0.0345		81.7	50-150		

Matrix Spike (1406028-MS1)

Source: 1406020-04

Prepared & Analyzed: 06/04/14

Acenaphthene	0.0254	0.00500	mg/kg	0.0331	ND	76.7	50-150		
Acenaphthylene	0.0249	0.00500	"	0.0331	ND	75.2	50-150		
Anthracene	0.0256	0.00500	"	0.0331	ND	77.2	50-150		
Benzo (a) anthracene	0.0215	0.00500	"	0.0331	ND	64.8	50-150		
Benzo (b) fluoranthene	0.0327	0.00500	"	0.0331	ND	98.9	50-150		
Benzo (k) fluoranthene	0.0315	0.00500	"	0.0331	ND	95.2	50-150		
Benzo (g,h,i) perylene	0.0301	0.00500	"	0.0331	ND	90.9	50-150		
Benzo (a) pyrene	0.0326	0.00500	"	0.0331	ND	98.4	50-150		
Chrysene	0.0205	0.00500	"	0.0331	ND	62.0	50-150		
Dibenz (a,h) anthracene	0.0315	0.00500	"	0.0331	ND	95.2	50-150		
Fluoranthene	0.0261	0.00500	"	0.0331	ND	78.9	50-150		
Fluorene	0.0253	0.00500	"	0.0331	ND	76.5	50-150		
Indeno (1,2,3-cd) pyrene	0.0316	0.00500	"	0.0331	ND	95.4	50-150		

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Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch 1406028 - EPA 5030 Soil MS

Matrix Spike (1406028-MS1)	Source: 1406020-04			Prepared & Analyzed: 06/04/14							
2-Methylnaphthalene	ND	0.00500	mg/kg		ND						0-200
Naphthalene	0.0252	0.00500	"	0.0331	ND	76.2	50-150				
Phenanthrene	0.0264	0.00500	"	0.0331	ND	79.6	50-150				
Pyrene	0.0208	0.00500	"	0.0331	ND	62.7	50-150				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0264</i>		<i>"</i>	<i>0.0344</i>		<i>76.8</i>	<i>50-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0284</i>		<i>"</i>	<i>0.0346</i>		<i>82.3</i>	<i>50-150</i>				

Summit Scientific

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

Project: NEP - 1J
Project Number: 0083-14036
Project Manager: Jake Janicek

Reported:
06/05/14 22:11

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

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

Batch 1406017 - EPA 3050B

Blank (1406017-BLK1)

Prepared: 06/03/14 Analyzed: 06/04/14

Arsenic	ND	1.00	mg/kg wet								
Barium	ND	1.00	"								
Cadmium	ND	1.00	"								
Chromium	ND	5.00	"								
Copper	ND	5.00	"								PRELM
Lead	ND	1.00	"								PRELM
Nickel	ND	1.00	"								
Selenium	ND	0.500	"								
Silver	ND	1.00	"								
Zinc	ND	100	"								

LCS (1406017-BS1)

Prepared: 06/03/14 Analyzed: 06/04/14

Arsenic	24.4	1.00	mg/kg wet	25.0	97.5	80-120					
Barium	2460	1.00	"	2250	109	80-120					
Cadmium	8.48	1.00	"	10.0	84.8	80-120					
Chromium	102	5.00	"	100	102	80-120					
Copper	180	5.00	"	200	89.8	80-120					PRELM
Lead	47.9	1.00	"	75.0	63.9	80-120					PRELM
Nickel	243	1.00	"	150	162	80-120					
Selenium	13.2	0.500	"	12.5	106	80-120					
Silver	0.618	1.00	"	2.50	24.7	80-120					
Zinc	75.3	100	"	75.0	100	80-120					

LCS Dup (1406017-BSD1)

Prepared: 06/03/14 Analyzed: 06/04/14

Arsenic	25.2	1.00	mg/kg wet	25.0	101	80-120	3.29	20			
Barium	2540	1.00	"	2250	113	80-120	3.08	20			
Cadmium	8.70	1.00	"	10.0	87.0	80-120	2.57	20			
Chromium	105	5.00	"	100	105	80-120	2.27	20			
Copper	190	5.00	"	200	95.1	80-120	5.69	20			PRELM
Lead	50.3	1.00	"	75.0	67.1	80-120	4.79	20			PRELM
Nickel	253	1.00	"	150	169	80-120	4.19	20			
Selenium	13.5	0.500	"	12.5	108	80-120	2.09	20			
Silver	0.641	1.00	"	2.50	25.7	80-120	3.66	20			
Zinc	75.1	100	"	75.0	100	80-120	0.226	20			

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

Project: NEP - 1J
Project Number: 0083-14036
Project Manager: Jake Janicek

Reported:
06/05/14 22:11

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

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

Batch 1406017 - EPA 3050B

Matrix Spike (1406017-MS1)	Source: 1405134-02			Prepared: 06/03/14		Analyzed: 06/04/14					
Arsenic	29.2	1.12	mg/kg dry	28.0	104	75-125					
Barium	2830	1.12	"	2520	112	75-125					
Cadmium	9.65	1.12	"	11.2	86.1	75-125					
Chromium	111	5.61	"	112	99.1	75-125					
Copper	198	5.61	"	224	88.2	75-125					PRELM
Lead	60.4	1.12	"	84.1	71.8	75-125					PRELM
Nickel	253	1.12	"	168	150	75-125					
Selenium	9.34	0.561	"	14.0	66.6	75-125					
Silver	0.744	1.12	"	2.80	26.5	75-125					
Zinc	103	112	"	84.1	122	75-125					

Matrix Spike Dup (1406017-MSD1)	Source: 1405134-02			Prepared: 06/03/14		Analyzed: 06/04/14					
Arsenic	24.2	0.929	mg/kg dry	23.2	104	75-125	18.8	25			
Barium	2400	0.929	"	2090	115	75-125	16.7	25			PRELM
Cadmium	8.18	0.929	"	9.29	88.1	75-125	16.5	25			
Chromium	90.6	4.64	"	92.9	97.6	75-125	20.4	25			
Copper	171	4.64	"	186	92.2	75-125	14.4	25			PRELM
Lead	52.1	0.929	"	69.6	74.7	75-125	14.8	25			PRELM
Nickel	197	0.929	"	139	142	75-125	24.7	25			
Selenium	7.29	0.464	"	11.6	62.8	75-125	24.7	25			
Silver	0.635	0.929	"	2.32	27.4	75-125	15.8	25			
Zinc	90.2	92.9	"	69.6	129	75-125	12.9	25			

Summit Scientific

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

Project: NEP - 1J
Project Number: 0083-14036
Project Manager: Jake Janicek

Reported:
06/05/14 22:11

Total Mercury by EPA Method 7471/7470/245.1 - Quality Control
Summit Scientific

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

Batch 1406034 - EPA 7471A

Blank (1406034-BLK1)

Prepared & Analyzed: 06/05/14

Mercury ND 0.0500 mg/kg wet

LCS (1406034-BS1)

Prepared & Analyzed: 06/05/14

Mercury 0.401 0.0500 mg/kg wet 0.400 100 80-120

Matrix Spike (1406034-MS1)

Source: 1406020-01

Prepared & Analyzed: 06/05/14

Mercury 0.217 0.0387 mg/kg dry 0.310 0.0259 61.7 80-120 QM-07

Matrix Spike Dup (1406034-MSD1)

Source: 1406020-01

Prepared & Analyzed: 06/05/14

Mercury 0.335 0.0366 mg/kg dry 0.293 0.0259 106 80-120 42.9 20

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Project: NEP - 1J
Project Number: 0083-14036
Project Manager: Jake Janicek

Reported:
06/05/14 22:11

Hexavalent Chromium by EPA 7196 - Quality Control
Summit Scientific

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

Batch 1406026 - 3060A_Mod

Blank (1406026-BLK1)		Prepared: 06/04/14 Analyzed: 06/05/14								
Chromium, Hexavalent	ND	2.00	mg/kg wet							
LCS (1406026-BS1)		Prepared: 06/04/14 Analyzed: 06/05/14								
Chromium, Hexavalent	22.1	2.00	mg/kg wet	20.0		111	80-120			
LCS Dup (1406026-BSD1)		Prepared: 06/04/14 Analyzed: 06/05/14								
Chromium, Hexavalent	24.6	2.00	mg/kg wet	20.0		123	80-120	10.6	20	QLCS-01
Duplicate (1406026-DUP1)		Source: 1406020-01		Prepared: 06/04/14 Analyzed: 06/05/14						
Chromium, Hexavalent	ND	2.46	mg/kg dry		ND				20	
Matrix Spike (1406026-MS1)		Source: 1406020-01		Prepared: 06/04/14 Analyzed: 06/05/14						
Chromium, Hexavalent	12.5	2.46	mg/kg dry	24.1	ND	51.9	80-120			QM-07

Summit Scientific

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

Project: NEP - 1J
Project Number: 0083-14036
Project Manager: Jake Janicek

Reported:
06/05/14 22:11

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

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

Batch 1406023 - General Preparation

Blank (1406023-BLK1)

Prepared & Analyzed: 06/04/14

Calcium	ND	10.0	mg/kg wet							
Magnesium	ND	5.00	"							
Sodium	6.41	5.00	"							

LCS (1406023-BS1)

Prepared & Analyzed: 06/04/14

Calcium	386	10.0	mg/kg wet	400		96.4	80-120			
Magnesium	227	5.00	"	200		113	80-120			
Sodium	487	5.00	"	500		97.3	80-120			

LCS Dup (1406023-BSD1)

Prepared & Analyzed: 06/04/14

Calcium	364	10.0	mg/kg wet	400		91.0	80-120	5.74	20	
Magnesium	218	5.00	"	200		109	80-120	4.21	20	
Sodium	479	5.00	"	500		95.8	80-120	1.60	20	

Matrix Spike (1406023-MS1)

Source: 1406020-01

Prepared & Analyzed: 06/04/14

Calcium	23200	12.3	mg/kg dry	462	1870	NR	75-125			QM-4X
Magnesium	1970	6.14	"	231	674	563	75-125			QM-4X
Sodium	2720	6.14	"	578	1940	135	75-125			QM-4X

Matrix Spike Dup (1406023-MSD1)

Source: 1406020-01

Prepared & Analyzed: 06/04/14

Calcium	24600	12.3	mg/kg dry	466	1870	NR	75-125	6.11	25	QM-4X
Magnesium	2130	6.14	"	233	674	624	75-125	7.45	25	QM-4X
Sodium	2790	6.14	"	582	1940	146	75-125	2.50	25	QM-4X

Summit Scientific

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

Project: NEP - 1J
Project Number: 0083-14036
Project Manager: Jake Janicek

Reported:
06/05/14 22:11

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

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

Batch 1406031 - General Preparation

Blank (1406031-BLK1)			Prepared & Analyzed: 06/04/14							
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
Duplicate (1406031-DUP1)			Source: 1406020-01		Prepared & Analyzed: 06/04/14					
Specific Conductance (EC)	2.57	0.0100	mmhos/cm		2.51			2.46	20	

Batch 1406032 - General Preparation

LCS (1406032-BS1)			Prepared & Analyzed: 06/04/14							
pH	8.21	0.100	pH Units	8.00		103	0-200			
Duplicate (1406032-DUP1)			Source: 1406020-01		Prepared & Analyzed: 06/04/14					
pH	10.0	0.100	pH Units		9.94			1.00	20	

Batch 1406036 - General Preparation

Duplicate (1406036-DUP1)			Source: 1406020-01		Prepared & Analyzed: 06/05/14					
% Solids	79.6		%		81.4			2.24	20	

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

Project: NEP - 1J

Project Number: 0083-14036
Project Manager: Jake Janicek

Reported:
06/05/14 22:11

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.
- R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- 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.
- QLCS-01 The spike recovery was outside acceptance limits for this analyte indicating a potential high bias. The corresponding samples did not exhibit concentrations above reporting level for this analyte. Data quality is not affected.
- PRELM Preliminary result. Revised report to follow.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- 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