



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

Project: Moser #2
Project Number: 027312026
Project Manager: Robert Rebel

Reported:
07/10/16 20:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C01	1606322-01	Soil	06/29/16 09:30	06/30/16 16:00
C02	1606322-02	Soil	06/29/16 09:45	06/30/16 16:00
C03	1606322-03	Soil	06/29/16 10:00	06/30/16 16:00
C04	1606322-04	Soil	06/29/16 10:15	06/30/16 16:00

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

Project: Moser #2

Project Number: 027312026
Project Manager: Robert Rebel

Reported:
07/10/16 20:36

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303-277-9310 • 303-374-5933 Fax

Page 1 of 1

Client:	LT Environmental, Inc.		
Address:	4600 West 60th Ave		
City/State/Zip:	Arvada, CO 80003		
Phone:	303-433-9788	Fax:	303-433-1432
Sampler Name:	Gentry Muz		

Project Manager:	Robert Rebel
E-Mail:	rrebel@itenv.com
Project Name:	Moser #2
Project Number:	027312026

[illegible]

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4600 West 60th Avenue
Arvada CO, 80003

Project: Moser #2
Project Number: 027312026
Project Manager: Robert Rebel

Reported:
07/10/16 20:36

C01
1606322-01 (Soil)

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Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/29/16 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1607035	07/05/16	07/05/16	8015M	

Date Sampled: **06/29/16 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		88.6 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/29/16 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1607034	07/05/16	07/06/16	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/29/16 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.7 %	21-167		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **06/29/16 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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C01
1606322-01 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	1607031	07/08/16	07/10/16	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	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	"	"	"	"	"	"	
Naphthalene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: 06/29/16 09:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		86.8 %	30-150		"	"	"	"	
Surrogate: Fluoranthene-d10		106 %	30-150		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 06/29/16 09:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.970	0.201	mg/kg dry	1	1607027	07/05/16	07/07/16	EPA 6020A	
Barium	42.8	0.403	"	"	"	"	"	"	
Cadmium	0.121	0.101	"	"	"	"	"	"	
Chromium	3.68	0.504	"	"	"	"	"	"	
Copper	7.24	0.504	"	"	"	"	"	"	
Lead	4.81	0.201	"	"	"	"	"	"	
Nickel	3.29	0.101	"	"	"	"	"	"	
Selenium	0.446	0.403	"	"	"	"	"	"	
Silver	ND	0.101	"	"	"	"	"	"	
Zinc	21.0	10.1	"	"	"	"	"	"	

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Project: Moser #2
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Reported:
07/10/16 20:36

C01
1606322-01 (Soil)

Summit Scientific

Total Mercury by EPA Method 7471

Date Sampled: **06/29/16 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0416	mg/kg dry	1	1607018	07/05/16	07/05/16	EPA 7471	

Hexavalent Chromium by EPA 7196

Date Sampled: **06/29/16 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.300	mg/kg dry	1	1607054	07/06/16	07/07/16	EPA 7196	

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

Date Sampled: **06/29/16 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	70.5	10.1	mg/kg dry	1	1607028	07/05/16	07/06/16	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	20.6	5.04	"	"	"	"	"	"	
Sodium	5.13	5.04	"	"	"	"	"	"	

Date Sampled: **06/29/16 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.138		units	"	1607059	07/07/16	07/07/16	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/29/16 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.272	0.0100	mmhos/cm	1	1607030	07/05/16	07/06/16	SM 2510B	

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/29/16 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.74	0.100	pH Units	1	1607029	07/05/16	07/06/16	EPA 9045	

Date Sampled: **06/29/16 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	99.3		%	"	1607026	07/05/16	07/06/16	% calculation	

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Reported:
07/10/16 20:36

C02
1606322-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/29/16 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1607035	07/05/16	07/05/16	8015M	

Date Sampled: **06/29/16 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		99.4 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/29/16 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1607034	07/05/16	07/06/16	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/29/16 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %	21-167		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **06/29/16 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	1607031	07/08/16	07/10/16	EPA 8270D SIM	

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C02
1606322-02 (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	1607031	07/08/16	07/10/16	EPA 8270D SIM	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.00736	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	"	"	"	"	"	"	
Naphthalene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: 06/29/16 09:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		69.4 %	30-150		"	"	"	"	
Surrogate: Fluoranthene-d10		81.4 %	30-150		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 06/29/16 09:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.49	0.202	mg/kg dry	1	1607027	07/05/16	07/07/16	EPA 6020A	
Barium	164	0.405	"	"	"	"	"	"	
Cadmium	0.212	0.101	"	"	"	"	"	"	
Chromium	5.04	0.506	"	"	"	"	"	"	
Copper	11.3	0.506	"	"	"	"	"	"	
Lead	8.45	0.202	"	"	"	"	"	"	
Nickel	5.16	0.101	"	"	"	"	"	"	
Selenium	0.412	0.405	"	"	"	"	"	"	
Silver	ND	0.101	"	"	"	"	"	"	
Zinc	24.1	10.1	"	"	"	"	"	"	

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C02
1606322-02 (Soil)

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Total Mercury by EPA Method 7471

Date Sampled: **06/29/16 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0402	mg/kg dry	1	1607018	07/05/16	07/05/16	EPA 7471	

Hexavalent Chromium by EPA 7196

Date Sampled: **06/29/16 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.300	mg/kg dry	1	1607054	07/06/16	07/07/16	EPA 7196	

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

Date Sampled: **06/29/16 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	350	8.72	mg/kg dry	1	1607028	07/05/16	07/06/16	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	86.8	4.36	"	"	"	"	"	"	
Sodium	18.2	4.36	"	"	"	"	"	"	

Date Sampled: **06/29/16 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.226		units	"	1607059	07/07/16	07/07/16	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/29/16 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.368	0.0100	mmhos/cm	1	1607030	07/05/16	07/06/16	SM 2510B	

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C02
1606322-02 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/29/16 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.08	0.100	pH Units	1	1607029	07/05/16	07/06/16	EPA 9045	

Date Sampled: **06/29/16 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.9		%	"	1607026	07/05/16	07/06/16	% calculation	

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Reported:
07/10/16 20:36

C03
1606322-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/29/16 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1607035	07/05/16	07/05/16	8015M	

Date Sampled: **06/29/16 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		64.1 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/29/16 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1607034	07/05/16	07/06/16	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/29/16 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **06/29/16 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	1607031	07/08/16	07/10/16	EPA 8270D SIM	

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C03
1606322-03 (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	1607031	07/08/16	07/10/16	EPA 8270D SIM	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	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	"	"	"	"	"	"	
Naphthalene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: 06/29/16 10:00

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		89.6 %	30-150		"	"	"	"	
Surrogate: Fluoranthene-d10		106 %	30-150		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 06/29/16 10:00

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.65	0.203	mg/kg dry	1	1607027	07/05/16	07/07/16	EPA 6020A	
Barium	135	0.406	"	"	"	"	"	"	
Cadmium	0.146	0.101	"	"	"	"	"	"	
Chromium	5.07	0.507	"	"	"	"	"	"	
Copper	11.2	0.507	"	"	"	"	"	"	
Lead	7.05	0.203	"	"	"	"	"	"	
Nickel	4.93	0.101	"	"	"	"	"	"	
Selenium	ND	0.406	"	"	"	"	"	"	
Silver	ND	0.101	"	"	"	"	"	"	
Zinc	25.9	10.1	"	"	"	"	"	"	

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07/10/16 20:36

C03
1606322-03 (Soil)

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Total Mercury by EPA Method 7471

Date Sampled: **06/29/16 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0507	mg/kg dry	1	1607018	07/05/16	07/05/16	EPA 7471	

Hexavalent Chromium by EPA 7196

Date Sampled: **06/29/16 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.300	mg/kg dry	1	1607054	07/06/16	07/07/16	EPA 7196	

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

Date Sampled: **06/29/16 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	864	8.60	mg/kg dry	1	1607028	07/05/16	07/06/16	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	108	4.30	"	"	"	"	"	"	
Sodium	12.0	4.30	"	"	"	"	"	"	

Date Sampled: **06/29/16 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.102		units	"	1607059	07/07/16	07/07/16	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/29/16 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.437	0.0100	mmhos/cm	1	1607030	07/05/16	07/06/16	SM 2510B	

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

Project: Moser #2
Project Number: 027312026
Project Manager: Robert Rebel

Reported:
07/10/16 20:36

C03
1606322-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/29/16 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.13	0.100	pH Units	1	1607029	07/05/16	07/06/16	EPA 9045	

Date Sampled: **06/29/16 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.5		%	"	1607026	07/05/16	07/06/16	% calculation	

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4600 West 60th Avenue
Arvada CO, 80003

Project: Moser #2
Project Number: 027312026
Project Manager: Robert Rebel

Reported:
07/10/16 20:36

C04
1606322-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/29/16 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1607035	07/05/16	07/05/16	8015M	

Date Sampled: **06/29/16 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		101 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/29/16 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1607034	07/05/16	07/06/16	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/29/16 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.6 %	21-167		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **06/29/16 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	1607031	07/08/16	07/10/16	EPA 8270D SIM	

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

Project: Moser #2
Project Number: 027312026
Project Manager: Robert Rebel

Reported:
07/10/16 20:36

C04
1606322-04 (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	1607031	07/08/16	07/10/16	EPA 8270D SIM	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	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	"	"	"	"	"	"	
Naphthalene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: 06/29/16 10:15

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		82.7 %	30-150		"	"	"	"	
Surrogate: Fluoranthene-d10		101 %	30-150		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 06/29/16 10:15

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.07	0.202	mg/kg dry	1	1607027	07/05/16	07/07/16	EPA 6020A	
Barium	174	0.403	"	"	"	"	"	"	
Cadmium	0.123	0.101	"	"	"	"	"	"	
Chromium	3.79	0.504	"	"	"	"	"	"	
Copper	7.24	0.504	"	"	"	"	"	"	
Lead	6.26	0.202	"	"	"	"	"	"	
Nickel	3.72	0.101	"	"	"	"	"	"	
Selenium	ND	0.403	"	"	"	"	"	"	
Silver	ND	0.101	"	"	"	"	"	"	
Zinc	22.3	10.1	"	"	"	"	"	"	

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LT Environmental, Inc.
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Arvada CO, 80003

Project: Moser #2
Project Number: 027312026
Project Manager: Robert Rebel

Reported:
07/10/16 20:36

C04
1606322-04 (Soil)

Summit Scientific

Total Mercury by EPA Method 7471

Date Sampled: **06/29/16 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0504	mg/kg dry	1	1607018	07/05/16	07/05/16	EPA 7471	

Hexavalent Chromium by EPA 7196

Date Sampled: **06/29/16 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.300	mg/kg dry	1	1607054	07/06/16	07/07/16	EPA 7196	

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

Date Sampled: **06/29/16 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	142	8.69	mg/kg dry	1	1607028	07/05/16	07/06/16	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	36.8	4.34	"	"	"	"	"	"	
Sodium	7.56	4.34	"	"	"	"	"	"	

Date Sampled: **06/29/16 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.146		units	"	1607059	07/07/16	07/07/16	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/29/16 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.482	0.0100	mmhos/cm	1	1607030	07/05/16	07/06/16	SM 2510B	

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

Project: Moser #2
Project Number: 027312026
Project Manager: Robert Rebel

Reported:
07/10/16 20:36

C04
1606322-04 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/29/16 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.07	0.100	pH Units	1	1607029	07/05/16	07/06/16	EPA 9045	

Date Sampled: **06/29/16 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	99.2		%	"	1607026	07/05/16	07/06/16	% calculation	

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

Project: Moser #2
Project Number: 027312026
Project Manager: Robert Rebel

Reported:
07/10/16 20:36

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 1607035 - EPA 3550A

Blank (1607035-BLK1)

Prepared & Analyzed: 07/05/16

C10-C28 (DRO)	ND	50	mg/kg							
Surrogate: o-Terphenyl	13.6		"	12.5		109	30-150			

LCS (1607035-BS1)

Prepared & Analyzed: 07/05/16

C10-C28 (DRO)	539	50	mg/kg	499		108	73-134			
Surrogate: o-Terphenyl	13.6		"	12.5		109	30-150			

Matrix Spike (1607035-MS1)

Source: 1606322-01

Prepared & Analyzed: 07/05/16

C10-C28 (DRO)	551	50	mg/kg	489	24.4	108	50-148			
Surrogate: o-Terphenyl	14.0		"	12.3		114	30-150			

Matrix Spike Dup (1607035-MSD1)

Source: 1606322-01

Prepared & Analyzed: 07/05/16

C10-C28 (DRO)	489	50	mg/kg	462	24.4	100	50-148	11.9	20	
Surrogate: o-Terphenyl	11.5		"	11.6		99.3	30-150			

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4600 West 60th Avenue
Arvada CO, 80003

Project: Moser #2
Project Number: 027312026
Project Manager: Robert Rebel

Reported:
07/10/16 20:36

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

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

Batch 1607034 - EPA 5030 Soil MS

Blank (1607034-BLK1)

Prepared: 07/05/16 Analyzed: 07/06/16

Naphthalene	ND	0.010	mg/kg							
Benzene	ND	0.0020	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0422</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0396</i>		<i>"</i>	<i>0.0400</i>		<i>99.1</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0403</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>21-167</i>			

LCS (1607034-BS1)

Prepared: 07/05/16 Analyzed: 07/06/16

Naphthalene	ND	0.010	mg/kg				66-138			
Benzene	0.117	0.0020	"	0.150		77.9	58-130			
Toluene	0.135	0.0050	"	0.150		89.8	61-134			
Ethylbenzene	0.152	0.0050	"	0.149		102	74-139			
m,p-Xylene	0.301	0.010	"	0.299		101	73-137			
o-Xylene	0.143	0.0050	"	0.147		97.1	73-141			
Xylenes (total)	0.444	0.010	"				0-200			
Gasoline Range Hydrocarbons	3.80	0.50	"				30-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0410</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0412</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0390</i>		<i>"</i>	<i>0.0400</i>		<i>97.4</i>	<i>21-167</i>			

Matrix Spike (1607034-MS1)

Source: 1606322-01

Prepared: 07/05/16 Analyzed: 07/06/16

Naphthalene	ND	0.010	mg/kg		ND		10-158			
Benzene	0.113	0.0020	"	0.146	ND	77.2	30-131			
Toluene	0.132	0.0050	"	0.146	ND	90.2	30-134			
Ethylbenzene	0.149	0.0050	"	0.145	ND	103	22-153			
m,p-Xylene	0.297	0.010	"	0.291	ND	102	10-159			
o-Xylene	0.142	0.0050	"	0.143	ND	99.4	31-151			
Xylenes (total)	0.439	0.010	"		ND		30-160			
Gasoline Range Hydrocarbons	3.86	0.50	"		ND		30-160			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0419</i>		<i>"</i>	<i>0.0389</i>		<i>108</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0389</i>		<i>"</i>	<i>0.0389</i>		<i>99.9</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0395</i>		<i>"</i>	<i>0.0389</i>		<i>101</i>	<i>21-167</i>			

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

Project: Moser #2
Project Number: 027312026
Project Manager: Robert Rebel

Reported:
07/10/16 20:36

Volatile Organic Compounds by EPA Method 8260B - Quality Control
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Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1607034 - EPA 5030 Soil MS

Matrix Spike Dup (1607034-MSD1)		Source: 1606322-01			Prepared: 07/05/16		Analyzed: 07/06/16			
Naphthalene	ND	0.010	mg/kg		ND		10-158			42
Benzene	0.117	0.0020	"	0.146	ND	79.9	30-131	3.63		34
Toluene	0.136	0.0050	"	0.146	ND	93.1	30-134	3.40		30
Ethylbenzene	0.153	0.0050	"	0.145	ND	106	22-153	2.72		24
m,p-Xylene	0.306	0.010	"	0.292	ND	105	10-159	2.94		68
o-Xylene	0.148	0.0050	"	0.143	ND	104	31-151	4.24		38
Xylenes (total)	0.454	0.010	"		ND		30-160	3.36		30
Gasoline Range Hydrocarbons	4.07	0.50	"		ND		30-160	5.06		30
Surrogate: 1,2-Dichloroethane-d4	0.0431		"	0.0390		111	23-173			
Surrogate: Toluene-d8	0.0398		"	0.0390		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0390		101	21-167			

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Project: Moser #2
Project Number: 027312026
Project Manager: Robert Rebel

Reported:
07/10/16 20:36

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

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

Batch 1607031 - EPA 5030 Soil MS

Blank (1607031-BLK1)

Prepared: 07/08/16 Analyzed: 07/09/16

Acenaphthene	ND	0.00500	mg/kg
Anthracene	ND	0.00500	"
Benzo (a) anthracene	ND	0.00500	"
Benzo (b) fluoranthene	ND	0.00500	"
Benzo (k) fluoranthene	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	"
Naphthalene	ND	0.00500	"
Pyrene	ND	0.00500	"

Surrogate: 2-Methylnaphthalene-d10	0.0312		"	0.0329	95.0	30-150
Surrogate: Fluoranthene-d10	0.0351		"	0.0329	107	30-150

LCS (1607031-BS1)

Prepared: 07/08/16 Analyzed: 07/10/16

Acenaphthene	0.0323	0.00500	mg/kg	0.0332	97.1	48-131
Anthracene	0.0320	0.00500	"	0.0332	96.4	48-135
Benzo (a) anthracene	0.0341	0.00500	"	0.0332	102	37-142
Benzo (b) fluoranthene	0.0363	0.00500	"	0.0332	109	35-139
Benzo (k) fluoranthene	0.0360	0.00500	"	0.0332	108	30-139
Benzo (a) pyrene	0.0338	0.00500	"	0.0332	102	41-132
Chrysene	0.0329	0.00500	"	0.0332	99.1	30-136
Dibenz (a,h) anthracene	0.0353	0.00500	"	0.0332	106	24-127
Fluoranthene	0.0358	0.00500	"	0.0332	108	50-139
Fluorene	0.0334	0.00500	"	0.0332	101	50-130
Indeno (1,2,3-cd) pyrene	0.0355	0.00500	"	0.0332	107	26-139
Naphthalene	0.0286	0.00500	"	0.0332	86.1	40-135
Pyrene	0.0328	0.00500	"	0.0332	98.6	39-141

Surrogate: 2-Methylnaphthalene-d10	0.0286		"	0.0332	86.0	50-150
Surrogate: Fluoranthene-d10	0.0338		"	0.0332	102	50-150

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

Project: Moser #2
Project Number: 027312026
Project Manager: Robert Rebel

Reported:
07/10/16 20:36

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

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

Batch 1607031 - EPA 5030 Soil MS

Matrix Spike (1607031-MS1)				Source: 1606310-03		Prepared: 07/08/16		Analyzed: 07/10/16		
Acenaphthene	0.0636	0.00500	mg/kg	0.0331	0.0152	146	27-140			QM-07
Anthracene	0.0343	0.00500	"	0.0331	ND	104	23-144			
Benzo (a) anthracene	0.0457	0.00500	"	0.0331	ND	138	12-168			
Benzo (b) fluoranthene	0.0631	0.00500	"	0.0331	0.0195	132	10-170			
Benzo (k) fluoranthene	0.0413	0.00500	"	0.0331	ND	125	11-150			
Benzo (a) pyrene	0.0367	0.00500	"	0.0331	ND	111	11-162			
Chrysene	0.152	0.00500	"	0.0331	0.0905	185	10-167			QM-07
Dibenz (a,h) anthracene	0.0324	0.00500	"	0.0331	ND	97.8	10-128			
Fluoranthene	0.0395	0.00500	"	0.0331	0.00882	92.6	18-157			
Fluorene	0.139	0.00500	"	0.0331	0.104	106	37-133			
Indeno (1,2,3-cd) pyrene	0.0229	0.00500	"	0.0331	ND	69.0	10-161			
Naphthalene	0.0913	0.00500	"	0.0331	0.0613	90.7	10-157			
Pyrene	0.177	0.00500	"	0.0331	0.0824	284	10-166			QM-07
Surrogate: 2-Methylnaphthalene-d10	0.0333		"	0.0331		101	50-150			
Surrogate: Fluoranthene-d10	0.0385		"	0.0331		116	50-150			

Matrix Spike Dup (1607031-MSD1)				Source: 1606310-03		Prepared: 07/08/16		Analyzed: 07/10/16		
Acenaphthene	0.0546	0.00500	mg/kg	0.0332	0.0152	119	27-140	15.2	15	QM-07
Anthracene	0.322	0.00500	"	0.0332	ND	968	23-144	161	29	QM-07
Benzo (a) anthracene	0.0399	0.00500	"	0.0332	ND	120	12-168	13.5	65	
Benzo (b) fluoranthene	0.0574	0.00500	"	0.0332	0.0195	114	10-170	9.46	18	
Benzo (k) fluoranthene	0.0375	0.00500	"	0.0332	ND	113	11-150	9.72	32	
Benzo (a) pyrene	0.0321	0.00500	"	0.0332	ND	96.7	11-162	13.2	27	
Chrysene	0.129	0.00500	"	0.0332	0.0905	115	10-167	16.6	88	
Dibenz (a,h) anthracene	0.0304	0.00500	"	0.0332	ND	91.5	10-128	6.26	20	
Fluoranthene	0.0344	0.00500	"	0.0332	0.00882	77.0	18-157	13.7	31	
Fluorene	0.124	0.00500	"	0.0332	0.104	60.7	37-133	11.4	16	
Indeno (1,2,3-cd) pyrene	0.0201	0.00500	"	0.0332	ND	60.5	10-161	12.8	22	
Naphthalene	0.0761	0.00500	"	0.0332	0.0613	44.7	10-157	18.2	24	
Pyrene	0.155	0.00500	"	0.0332	0.0824	219	10-166	12.8	57	QM-07
Surrogate: 2-Methylnaphthalene-d10	0.0308		"	0.0332		92.8	50-150			
Surrogate: Fluoranthene-d10	0.0352		"	0.0332		106	50-150			

Summit Scientific

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

Project: Moser #2
Project Number: 027312026
Project Manager: Robert Rebel

Reported:
07/10/16 20:36

Total Metals by EPA 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 1607027 - EPA 3050B

Blank (1607027-BLK1)

Prepared: 07/05/16 Analyzed: 07/07/16

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.100	"
Chromium	ND	0.500	"
Copper	ND	0.500	"
Lead	ND	0.200	"
Nickel	ND	0.100	"
Selenium	ND	0.400	"
Silver	ND	0.100	"
Zinc	ND	10.0	"

LCS (1607027-BS1)

Prepared: 07/05/16 Analyzed: 07/07/16

Arsenic	46.8	0.200	mg/kg wet	52.8	88.6	82.6-117
Barium	79.8	0.400	"	91.2	87.5	72.8-127
Cadmium	46.7	0.100	"	48.8	95.6	80.3-120
Chromium	21.4	0.500	"	25.3	84.7	74.7-125
Copper	78.3	0.500	"	84.8	92.3	85.4-115
Lead	40.4	0.200	"	43.2	93.5	81.1-119
Nickel	104	0.100	"	114	91.3	88-112
Selenium	24.0	0.400	"	32.2	74.6	73.7-127
Silver	21.8	0.100	"	29.4	74.1	69.8-130
Zinc	66.7	10.0	"	81.2	82.1	77.8-122

Duplicate (1607027-DUP1)

Source: 1606310-02

Prepared: 07/05/16 Analyzed: 07/07/16

Arsenic	7.36	0.238	mg/kg dry	6.51	12.2	20	
Barium	685	0.476	"	437	44.2	20	QR-03
Cadmium	1.32	0.119	"	0.881	39.8	20	QR-03
Chromium	12.6	0.595	"	12.4	1.78	20	
Copper	21.4	0.595	"	19.5	9.12	20	
Lead	9.72	0.238	"	9.83	1.11	20	
Nickel	24.1	0.119	"	20.3	16.8	20	
Selenium	2.54	0.476	"	1.91	28.1	20	QR-03
Silver	0.131	0.119	"	0.124	5.61	20	
Zinc	44.3	11.9	"	35.2	23.0	20	QR-03

Summit Scientific

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

Project: Moser #2
Project Number: 027312026
Project Manager: Robert Rebel

Reported:
07/10/16 20:36

Total Metals by EPA 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 1607027 - EPA 3050B

Matrix Spike (1607027-MS1)

Source: 1606310-02

Prepared: 07/05/16

Analyzed: 07/07/16

Arsenic	44.5	0.238	mg/kg dry	45.8	6.51	82.9	75-125			
Barium	620	0.476	"	45.8	437	398	75-125			QM-07
Cadmium	2.70	0.119	"	2.29	0.881	79.6	75-125			
Chromium	51.7	0.595	"	45.8	12.4	86.0	75-125			
Copper	56.7	0.595	"	45.8	19.5	81.3	75-125			
Lead	28.6	0.238	"	22.9	9.83	82.1	75-125			
Nickel	57.4	0.119	"	45.8	20.3	80.9	75-125			
Selenium	5.17	0.476	"	4.58	1.91	71.1	75-125			QM-07
Silver	1.80	0.119	"	2.29	0.124	73.2	75-125			QM-07
Zinc	60.3	11.9	"	45.8	35.2	54.8	75-125			QM-07

Matrix Spike Dup (1607027-MSD1)

Source: 1606310-02

Prepared: 07/05/16

Analyzed: 07/07/16

Arsenic	43.5	0.238	mg/kg dry	45.1	6.51	82.0	75-125	2.25	25	
Barium	557	0.476	"	45.1	437	267	75-125	10.6	25	QM-07
Cadmium	2.82	0.119	"	2.25	0.881	86.1	75-125	4.32	25	
Chromium	48.1	0.595	"	45.1	12.4	79.3	75-125	7.26	25	
Copper	53.4	0.595	"	45.1	19.5	75.2	75-125	5.96	25	
Lead	26.3	0.238	"	22.5	9.83	73.3	75-125	8.31	25	QM-07
Nickel	54.8	0.119	"	45.1	20.3	76.5	75-125	4.49	25	
Selenium	5.67	0.476	"	4.51	1.91	83.2	75-125	9.20	25	
Silver	1.72	0.119	"	2.25	0.124	70.9	75-125	4.37	25	QM-07
Zinc	62.3	11.9	"	45.1	35.2	60.2	75-125	3.36	25	QM-07

Summit Scientific

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

Project: Moser #2
Project Number: 027312026
Project Manager: Robert Rebel

Reported:
07/10/16 20:36

Total Mercury by EPA Method 7471 - Quality Control
Summit Scientific

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

Batch 1607018 - EPA 7471A

Blank (1607018-BLK1)					Prepared & Analyzed: 07/05/16					
Mercury	ND	0.0500	mg/kg wet							
LCS (1607018-BS1)					Prepared & Analyzed: 07/05/16					
Mercury	0.499	0.0500	mg/kg wet	0.500		99.9	80-120			
Duplicate (1607018-DUP1)					Source: 1606310-02		Prepared & Analyzed: 07/05/16			
Mercury	0.0394	0.0461	mg/kg dry		0.0457			14.6	20	
Matrix Spike (1607018-MS1)					Source: 1606310-02		Prepared & Analyzed: 07/05/16			
Mercury	0.602	0.0595	mg/kg dry	0.570	0.0457	97.6	80-120			
Matrix Spike Dup (1607018-MSD1)					Source: 1606310-02		Prepared & Analyzed: 07/05/16			
Mercury	0.593	0.0595	mg/kg dry	0.549	0.0457	99.7	80-120	1.52	20	

Summit Scientific

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

Project: Moser #2
Project Number: 027312026
Project Manager: Robert Rebel

Reported:
07/10/16 20:36

Hexavalent Chromium by EPA 7196 - Quality Control
Summit Scientific

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

Batch 1607054 - 3060A_Mod

Blank (1607054-BLK1)

Prepared: 07/06/16 Analyzed: 07/07/16

Chromium, Hexavalent ND 0.300 mg/kg wet

LCS (1607054-BS1)

Prepared: 07/06/16 Analyzed: 07/07/16

Chromium, Hexavalent 19.6 0.300 mg/kg wet 19.9 98.1 85-115

Duplicate (1607054-DUP1)

Source: 1606310-02

Prepared: 07/06/16 Analyzed: 07/07/16

Chromium, Hexavalent ND 0.300 mg/kg dry ND 20

Matrix Spike (1607054-MS1)

Source: 1606310-02

Prepared: 07/06/16 Analyzed: 07/07/16

Chromium, Hexavalent ND 0.300 mg/kg dry 23.7 ND 85-115 QM-07

Matrix Spike (1607054-MS2)

Source: 1606310-02

Prepared: 07/06/16 Analyzed: 07/07/16

Chromium, Hexavalent 4.24 0.300 mg/kg dry 23.7 ND 17.9 85-115 QM-07

Post Spike (1607054-PS1)

Source: 1606310-02

Prepared: 07/06/16 Analyzed: 07/07/16

Chromium, Hexavalent 0.00400 mg/kg 0.498 0.00 0.802 85-115 QM-07

Summit Scientific

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

Project: Moser #2
Project Number: 027312026
Project Manager: Robert Rebel

Reported:
07/10/16 20:36

Soluble Nutrients by EPA 6020/Mod. 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 1607028 - General Preparation

Blank (1607028-BLK1)

Prepared: 07/05/16 Analyzed: 07/06/16

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

LCS (1607028-BS1)

Prepared: 07/05/16 Analyzed: 07/06/16

Calcium	518	10.0	mg/kg wet	500	104	82.9-118
Magnesium	611	5.00	"	500	122	77.1-123
Sodium	632	5.00	"	500	126	71-129

Duplicate (1607028-DUP1)

Source: 1606310-02

Prepared: 07/05/16 Analyzed: 07/06/16

Calcium	1840	11.9	mg/kg dry	1660	10.4	200
Magnesium	289	5.95	"	259	10.9	200
Sodium	2330	5.95	"	2220	4.83	200

Matrix Spike (1607028-MS1)

Source: 1606310-02

Prepared: 07/05/16 Analyzed: 07/06/16

Calcium	2460	11.9	mg/kg dry	561	1660	142	75-125	QM-07
Magnesium	929	5.95	"	561	259	119	75-125	
Sodium	2820	5.95	"	561	2220	105	75-125	

Matrix Spike Dup (1607028-MSD1)

Source: 1606310-02

Prepared: 07/05/16 Analyzed: 07/06/16

Calcium	2460	11.9	mg/kg dry	561	1660	142	75-125	0.117	25	QM-07
Magnesium	928	5.95	"	561	259	119	75-125	0.0434	25	
Sodium	2800	5.95	"	561	2220	102	75-125	0.681	25	

Summit Scientific

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

Project: Moser #2
Project Number: 027312026
Project Manager: Robert Rebel

Reported:
07/10/16 20:36

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 1607026 - General Preparation

Duplicate (1607026-DUP1) Source: 1606310-02 Prepared: 07/05/16 Analyzed: 07/06/16

% Solids	84.9		%		84.0			1.03	20	
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Batch 1607029 - General Preparation

LCS (1607029-BS1) Prepared: 07/05/16 Analyzed: 07/06/16

pH	8.00	0.100	pH Units	8.00	100	95-105				
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Duplicate (1607029-DUP1) Source: 1606310-02 Prepared: 07/05/16 Analyzed: 07/06/16

pH	8.33	0.100	pH Units	8.45			1.43	20		
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Batch 1607030 - General Preparation

Blank (1607030-BLK1) Prepared: 07/05/16 Analyzed: 07/06/16

Specific Conductance (EC)	ND	0.0100	mmhos/cm							
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LCS (1607030-BS1) Prepared: 07/05/16 Analyzed: 07/06/16

Specific Conductance (EC)	0.494	0.0100	mmhos/cm	0.500	98.8	90-110				
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Duplicate (1607030-DUP1) Source: 1606310-02 Prepared: 07/05/16 Analyzed: 07/06/16

Specific Conductance (EC)	3.35	0.0100	mmhos/cm	3.31			0.991	20		
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Summit Scientific

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

Project: Moser #2
Project Number: 027312026
Project Manager: Robert Rebel

Reported:
07/10/16 20:36

Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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