

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

June 08, 2018

Andy Verbonitz
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: Cockrofit Spreadfield

Enclosed are the results of analyses for samples received by Summit Scientific on 05/31/18 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Ben Shrewsbury
Laboratory Manager



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

Project: Cockroft Spreadfield

Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
COMPOSITE 1	1805392-01	Soil	05/31/18 11:00	05/31/18 16:30
COMPOSITE 2	1805392-02	Soil	05/31/18 11:15	05/31/18 16:30
COMPOSITE 3	1805392-03	Soil	05/31/18 11:25	05/31/18 16:30
COMPOSITE 4	1805392-04	Soil	05/31/18 11:35	05/31/18 16:30
COMPOSITE 5	1805392-05	Soil	05/31/18 11:45	05/31/18 16:30
COMPOSITE 6	1805392-06	Soil	05/31/18 11:55	05/31/18 16:30
COMPOSITE 7	1805392-07	Soil	05/31/18 12:10	05/31/18 16:30
COMPOSITE 8	1805392-08	Soil	05/31/18 12:24	05/31/18 16:30
COMPOSITE 9	1805392-09	Soil	05/31/18 12:37	05/31/18 16:30

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1805392

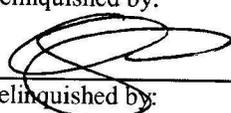
741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: LT Environmental
Address: 4600 W 60th Ave
City/State/Zip: Arvada CO 80003
Phone: 303-433-9788 Fax: 303-433-1432
Sampler Name: G. Thompson

Project Manager: A. Verbonitz
E-Mail: averbonitz@ltenv.com
Project Name: Cockroft Spreadfield
Project Number: 62318003

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix				Analyze For:						Special Instructions	
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	TVPH/TEPH	BTEX	pH	EC	SAR	Table 910-1 Metals		
Composite 1	5/31/18	1100	2			X			X				X	X	X	X	X	X	
Composite 2		1115	2			X			X				X	X	X	X	X	X	
Composite 3		1125	2			X			X				X	X	X	X	X	X	
Composite 4		1135	2			X			X				X	X	X	X	X	X	
Composite 5		1145	2			X			X				X	X	X	X	X	X	
Composite 6		1155	2			X			X				X	X	X	X	X	X	
Composite 7		1210	2			X			X				X	X	X	X	X	X	
Composite 8		1224	2			X			X				X	X	X	X	X	X	
Composite 9		1237	2			X			X				X	X	X	X	X	X	

Relinquished by: 	Date/Time: <u>5/31/18 1630</u>	Received by: 	Date/Time: <u>5/31/18 4:34pm</u>	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/>	Notes: Invoice to Meagan Miller, Miller@bayswater.us on ice
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:		

Sample Integrity: Temperature Upon Receipt: 9.5
Intact: Yes No

Sample Receipt Checklist

S2 Work Order: 1805392

Client: LT Client Project ID: Corkcroft Spread Field.

Shipped Via: Hand Airbill #: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Matrix (check all that apply): Air Soil/Solid Water Other: _____
(Describe)

Temp (°C) 9.5

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<small>NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.</small>				
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<small>Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect</small>				
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<small>Record the pH in Comments.</small>				
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

MC
Custodian Printed Name or Initials

MC
Signature or Initials of Custodian

5/31/18
Date/Time



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

Project: Cockroft Spreadfield

Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

COMPOSITE 1
1805392-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/31/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1806019	06/01/18	06/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/31/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.8 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/31/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1806078	06/06/18	06/07/18	EPA 8015M	

Date Sampled: **05/31/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		80.0 %	30-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **05/31/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.67	0.217	mg/kg dry	1	1806024	06/04/18	06/04/18	EPA 6020B	
Barium	768	0.435	"	"	"	"	"	"	

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COMPOSITE 1
1805392-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	4.69	4.35	mg/kg dry	1	1806024	06/04/18	06/04/18	EPA 6020B	
Cadmium	0.275	0.217	"	"	"	"	"	"	
Chromium	5.38	0.435	"	"	"	"	"	"	
Copper	10.1	0.435	"	"	"	"	"	"	
Lead	6.94	0.217	"	"	"	"	"	"	
Nickel	5.46	0.435	"	"	"	"	"	"	
Selenium	0.632	0.435	"	"	"	"	"	"	
Silver	0.0481	0.0217	"	"	"	"	"	"	
Zinc	42.6	0.435	"	"	"	"	"	"	

Total Mercury by EPA 7471

Date Sampled: **05/31/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0543	mg/kg dry	1	1806050	06/05/18	06/07/18	EPA 7471	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/31/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	1806098	06/01/18	06/01/18	EPA 7196A	

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

Date Sampled: **05/31/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	436	10.9	mg/kg dry	1	1806023	06/04/18	06/04/18	EPA 6020B	
Magnesium	150	5.43	"	"	"	"	"	"	
Sodium	92.0	5.43	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/31/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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COMPOSITE 1
1805392-01 (Soil)

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Calculated Analysis

Chromium+3 Calculated	5.38	0.300	mg/kg	1	1806118	06/07/18	06/07/18	Calculation
Sodium Adsorption Ratio	0.969	0.100	units	"	1806042	06/05/18	06/05/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/31/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.0		%	1	1806007	06/01/18	06/04/18	Calculation	
pH	8.52		pH Units	"	1806008	06/01/18	06/01/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **05/31/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.426	0.0100	mmhos/cm	1	1806009	06/01/18	06/01/18	EPA 120.1	

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Project: Cockroft Spreadfield

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Project Manager: Andy Verbonitz

Reported:
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COMPOSITE 2
1805392-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/31/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1806019	06/01/18	06/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/31/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		114 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.1 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/31/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1806078	06/06/18	06/07/18	EPA 8015M	

Date Sampled: **05/31/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		85.8 %	30-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **05/31/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.56	0.210	mg/kg dry	1	1806024	06/04/18	06/04/18	EPA 6020B	
Barium	1050	0.420	"	"	"	"	"	"	
Boron	4.58	4.20	"	"	"	"	"	"	

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COMPOSITE 2
1805392-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cadmium	0.293	0.210	mg/kg dry	1	1806024	06/04/18	06/04/18	EPA 6020B	
Chromium	5.11	0.420	"	"	"	"	"	"	
Copper	12.1	0.420	"	"	"	"	"	"	
Lead	5.90	0.210	"	"	"	"	"	"	
Nickel	4.83	0.420	"	"	"	"	"	"	
Selenium	0.670	0.420	"	"	"	"	"	"	
Silver	0.0414	0.0210	"	"	"	"	"	"	
Zinc	40.8	0.420	"	"	"	"	"	"	

Total Mercury by EPA 7471

Date Sampled: **05/31/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0525	mg/kg dry	1	1806050	06/05/18	06/07/18	EPA 7471	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/31/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	1806098	06/01/18	06/01/18	EPA 7196A	

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

Date Sampled: **05/31/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	891	10.5	mg/kg dry	1	1806023	06/04/18	06/04/18	EPA 6020B	
Magnesium	205	5.25	"	"	"	"	"	"	
Sodium	150	5.25	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/31/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	5.11	0.300	mg/kg	1	1806118	06/07/18	06/07/18	Calculation	

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COMPOSITE 2
1805392-02 (Soil)

Summit Scientific

Calculated Analysis

Sodium Adsorption Ratio	1.18	0.100	units	1	1806042	06/05/18	06/05/18	Calculation
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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/31/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.2		%	1	1806007	06/01/18	06/04/18	Calculation	
pH	8.34		pH Units	"	1806008	06/01/18	06/01/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **05/31/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.867	0.0100	mmhos/cm	1	1806009	06/01/18	06/01/18	EPA 120.1	

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Project: Cockroft Spreadfield

Project Number: 62318003
Project Manager: Andy Verbonitz

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COMPOSITE 3
1805392-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/31/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1806019	06/01/18	06/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/31/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.4 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/31/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1806078	06/06/18	06/07/18	EPA 8015M	

Date Sampled: **05/31/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		81.6 %	30-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **05/31/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.46	0.217	mg/kg dry	1	1806024	06/04/18	06/04/18	EPA 6020B	
Barium	1020	0.433	"	"	"	"	"	"	
Boron	ND	4.33	"	"	"	"	"	"	

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1805392-03 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cadmium	ND	0.217	mg/kg dry	1	1806024	06/04/18	06/04/18	EPA 6020B	
Chromium	3.21	0.433	"	"	"	"	"	"	
Copper	10.1	0.433	"	"	"	"	"	"	
Lead	5.04	0.217	"	"	"	"	"	"	
Nickel	3.49	0.433	"	"	"	"	"	"	
Selenium	0.509	0.433	"	"	"	"	"	"	
Silver	0.0286	0.0217	"	"	"	"	"	"	
Zinc	34.4	0.433	"	"	"	"	"	"	

Total Mercury by EPA 7471

Date Sampled: **05/31/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0541	mg/kg dry	1	1806050	06/05/18	06/07/18	EPA 7471	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/31/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	1806098	06/01/18	06/01/18	EPA 7196A	

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

Date Sampled: **05/31/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	650	10.8	mg/kg dry	1	1806023	06/04/18	06/04/18	EPA 6020B	
Magnesium	196	5.41	"	"	"	"	"	"	
Sodium	80.5	5.41	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/31/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Cockroft Spreadfield

Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

COMPOSITE 3
1805392-03 (Soil)

Summit Scientific

Calculated Analysis

Chromium+3 Calculated	3.21	0.300	mg/kg	1	1806118	06/07/18	06/07/18	Calculation
Sodium Adsorption Ratio	0.711	0.100	units	"	1806042	06/05/18	06/05/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/31/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.4		%	1	1806007	06/01/18	06/04/18	Calculation	
pH	8.19		pH Units	"	1806008	06/01/18	06/01/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **05/31/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.565	0.0100	mmhos/cm	1	1806009	06/01/18	06/01/18	EPA 120.1	

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

Project: Cockroft Spreadfield

Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

COMPOSITE 4
1805392-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/31/18 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1806019	06/01/18	06/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/31/18 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		113 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.8 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/31/18 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1806078	06/06/18	06/07/18	EPA 8015M	

Date Sampled: **05/31/18 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		83.2 %	30-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **05/31/18 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.48	0.223	mg/kg dry	1	1806024	06/04/18	06/04/18	EPA 6020B	
Barium	1050	0.446	"	"	"	"	"	"	
Cadmium	ND	0.223	"	"	"	"	"	"	

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

Project: Cockroft Spreadfield
Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

COMPOSITE 4
1805392-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	4.46	mg/kg dry	1	1806024	06/04/18	06/04/18	EPA 6020B	
Chromium	3.23	0.446	"	"	"	"	"	"	
Copper	12.6	0.446	"	"	"	"	"	"	
Lead	4.62	0.223	"	"	"	"	"	"	
Nickel	3.48	0.446	"	"	"	"	"	"	
Selenium	0.469	0.446	"	"	"	"	"	"	
Silver	0.0259	0.0223	"	"	"	"	"	"	
Zinc	48.8	0.446	"	"	"	"	"	"	

Total Mercury by EPA 7471

Date Sampled: **05/31/18 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0557	mg/kg dry	1	1806050	06/05/18	06/07/18	EPA 7471	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/31/18 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	1806098	06/01/18	06/01/18	EPA 7196A	

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

Date Sampled: **05/31/18 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	843	11.1	mg/kg dry	1	1806023	06/04/18	06/04/18	EPA 6020B	
Magnesium	235	5.57	"	"	"	"	"	"	
Sodium	85.9	5.57	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/31/18 11:35**

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

Project: Cockroft Spreadfield

Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

COMPOSITE 4
1805392-04 (Soil)

Summit Scientific

Calculated Analysis

Chromium+3 Calculated	3.23	0.300	mg/kg	1	1806118	06/07/18	06/07/18	Calculation
Sodium Adsorption Ratio	0.674	0.100	units	"	1806042	06/05/18	06/05/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/31/18 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.8		%	1	1806007	06/01/18	06/04/18	Calculation	
pH	8.07		pH Units	"	1806008	06/01/18	06/01/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **05/31/18 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.656	0.0100	mmhos/cm	1	1806009	06/01/18	06/01/18	EPA 120.1	

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

Project: Cockroft Spreadfield

Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

COMPOSITE 5
1805392-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/31/18 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1806019	06/01/18	06/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/31/18 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.0 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/31/18 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1806078	06/06/18	06/08/18	EPA 8015M	

Date Sampled: **05/31/18 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		75.9 %	30-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **05/31/18 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.54	0.212	mg/kg dry	1	1806024	06/04/18	06/04/18	EPA 6020B	
Barium	645	0.423	"	"	"	"	"	"	
Boron	ND	4.23	"	"	"	"	"	"	

Summit Scientific

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

Project: Cockroft Spreadfield

Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

COMPOSITE 5
1805392-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cadmium	ND	0.212	mg/kg dry	1	1806024	06/04/18	06/04/18	EPA 6020B	
Chromium	2.69	0.423	"	"	"	"	"	"	
Copper	11.6	0.423	"	"	"	"	"	"	
Lead	3.73	0.212	"	"	"	"	"	"	
Nickel	3.20	0.423	"	"	"	"	"	"	
Selenium	0.470	0.423	"	"	"	"	"	"	
Silver	ND	0.0212	"	"	"	"	"	"	
Zinc	32.6	0.423	"	"	"	"	"	"	

Total Mercury by EPA 7471

Date Sampled: **05/31/18 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0529	mg/kg dry	1	1806050	06/05/18	06/07/18	EPA 7471	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/31/18 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	1806098	06/01/18	06/01/18	EPA 7196A	

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

Date Sampled: **05/31/18 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	575	10.6	mg/kg dry	1	1806023	06/04/18	06/04/18	EPA 6020B	
Magnesium	131	5.29	"	"	"	"	"	"	
Sodium	65.3	5.29	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/31/18 11:45**

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

Project: Cockroft Spreadfield

Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

COMPOSITE 5
1805392-05 (Soil)

Summit Scientific

Calculated Analysis

Chromium+3 Calculated	2.69	0.300	mg/kg	1	1806118	06/07/18	06/07/18	Calculation
Sodium Adsorption Ratio	0.639	0.100	units	"	1806042	06/05/18	06/05/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/31/18 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.5		%	1	1806007	06/01/18	06/04/18	Calculation	
pH	8.37		pH Units	"	1806008	06/01/18	06/01/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **05/31/18 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.439	0.0100	mmhos/cm	1	1806009	06/01/18	06/01/18	EPA 120.1	

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

Project: Cockroft Spreadfield

Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

COMPOSITE 6
1805392-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/31/18 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1806019	06/01/18	06/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/31/18 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.0 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/31/18 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1806078	06/06/18	06/08/18	EPA 8015M	

Date Sampled: **05/31/18 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		76.8 %	30-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **05/31/18 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.81	0.217	mg/kg dry	1	1806024	06/04/18	06/04/18	EPA 6020B	
Barium	884	0.435	"	"	"	"	"	"	
Cadmium	0.268	0.217	"	"	"	"	"	"	

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

Project: Cockroft Spreadfield
Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

COMPOSITE 6
1805392-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	4.35	mg/kg dry	1	1806024	06/04/18	06/04/18	EPA 6020B	
Chromium	3.57	0.435	"	"	"	"	"	"	
Copper	9.24	0.435	"	"	"	"	"	"	
Lead	3.91	0.217	"	"	"	"	"	"	
Nickel	4.48	0.435	"	"	"	"	"	"	
Selenium	0.571	0.435	"	"	"	"	"	"	
Silver	0.0288	0.0217	"	"	"	"	"	"	
Zinc	35.5	0.435	"	"	"	"	"	"	

Total Mercury by EPA 7471

Date Sampled: **05/31/18 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0543	mg/kg dry	1	1806050	06/05/18	06/07/18	EPA 7471	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/31/18 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	1806098	06/01/18	06/01/18	EPA 7196A	

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

Date Sampled: **05/31/18 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	701	10.9	mg/kg dry	1	1806023	06/04/18	06/04/18	EPA 6020B	
Magnesium	187	5.43	"	"	"	"	"	"	
Sodium	71.4	5.43	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/31/18 11:55**

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

Project: Cockroft Spreadfield

Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

COMPOSITE 6
1805392-06 (Soil)

Summit Scientific

Calculated Analysis

Chromium+3 Calculated	3.57	0.300	mg/kg	1	1806118	06/07/18	06/07/18	Calculation
Sodium Adsorption Ratio	0.619	0.100	units	"	1806042	06/05/18	06/05/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/31/18 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.0		%	1	1806007	06/01/18	06/04/18	Calculation	
pH	8.20		pH Units	"	1806008	06/01/18	06/01/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **05/31/18 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.664	0.0100	mmhos/cm	1	1806009	06/01/18	06/01/18	EPA 120.1	

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

Project: Cockroft Spreadfield

Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

COMPOSITE 7
1805392-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/31/18 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1806019	06/01/18	06/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/31/18 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/31/18 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1806078	06/06/18	06/08/18	EPA 8015M	

Date Sampled: **05/31/18 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		81.9 %	30-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **05/31/18 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.963	0.224	mg/kg dry	1	1806024	06/04/18	06/04/18	EPA 6020B	
Barium	260	0.448	"	"	"	"	"	"	
Cadmium	ND	0.224	"	"	"	"	"	"	

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4600 West 60th Avenue
Arvada CO, 80003

Project: Cockroft Spreadfield

Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

COMPOSITE 7
1805392-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	7.50	4.48	mg/kg dry	1	1806024	06/04/18	06/04/18	EPA 6020B	
Chromium	3.87	0.448	"	"	"	"	"	"	
Copper	24.8	0.448	"	"	"	"	"	"	
Lead	3.05	0.224	"	"	"	"	"	"	
Nickel	3.20	0.448	"	"	"	"	"	"	
Selenium	0.756	0.448	"	"	"	"	"	"	
Silver	ND	0.0224	"	"	"	"	"	"	
Zinc	158	0.448	"	"	"	"	"	"	

Total Mercury by EPA 7471

Date Sampled: **05/31/18 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0560	mg/kg dry	1	1806050	06/05/18	06/07/18	EPA 7471	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/31/18 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	1806098	06/01/18	06/01/18	EPA 7196A	

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

Date Sampled: **05/31/18 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	5790	11.2	mg/kg dry	1	1806023	06/04/18	06/04/18	EPA 6020B	
Magnesium	965	5.60	"	"	"	"	"	"	
Sodium	4280	5.60	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/31/18 12:10**

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

Project: Cockroft Spreadfield

Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

COMPOSITE 7
1805392-07 (Soil)

Summit Scientific

Calculated Analysis

Chromium+3 Calculated	3.87	0.300	mg/kg	1	1806118	06/07/18	06/07/18	Calculation
Sodium Adsorption Ratio	13.7	0.100	units	"	1806042	06/05/18	06/05/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/31/18 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.3		%	1	1806007	06/01/18	06/04/18	Calculation	
pH	8.12		pH Units	"	1806008	06/01/18	06/01/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **05/31/18 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	22.1	0.0100	mmhos/cm	1	1806009	06/01/18	06/01/18	EPA 120.1	

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

Project: Cockroft Spreadfield

Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

COMPOSITE 8
1805392-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/31/18 12:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1806019	06/01/18	06/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/31/18 12:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.9 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/31/18 12:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1806078	06/06/18	06/08/18	EPA 8015M	

Date Sampled: **05/31/18 12:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		81.2 %	30-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **05/31/18 12:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.12	0.219	mg/kg dry	1	1806024	06/04/18	06/04/18	EPA 6020B	
Barium	1050	0.438	"	"	"	"	"	"	
Boron	4.51	4.38	"	"	"	"	"	"	

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

Project: Cockroft Spreadfield
Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

COMPOSITE 8
1805392-08 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cadmium	0.242	0.219	mg/kg dry	1	1806024	06/04/18	06/04/18	EPA 6020B	
Chromium	3.95	0.438	"	"	"	"	"	"	
Copper	11.6	0.438	"	"	"	"	"	"	
Lead	4.02	0.219	"	"	"	"	"	"	
Nickel	4.43	0.438	"	"	"	"	"	"	
Selenium	0.702	0.438	"	"	"	"	"	"	
Silver	0.0342	0.0219	"	"	"	"	"	"	
Zinc	57.3	0.438	"	"	"	"	"	"	

Total Mercury by EPA 7471

Date Sampled: **05/31/18 12:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0548	mg/kg dry	1	1806050	06/05/18	06/07/18	EPA 7471	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/31/18 12:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	1806098	06/01/18	06/01/18	EPA 7196A	

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

Date Sampled: **05/31/18 12:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	412	11.0	mg/kg dry	1	1806023	06/04/18	06/04/18	EPA 6020B	
Magnesium	169	5.48	"	"	"	"	"	"	
Sodium	1160	5.48	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/31/18 12:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	3.95	0.300	mg/kg	1	1806118	06/07/18	06/07/18	Calculation	

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

Project: Cockroft Spreadfield
Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

COMPOSITE 8
1805392-08 (Soil)

Summit Scientific

Calculated Analysis

Sodium Adsorption Ratio	12.2	0.100	units	1	1806042	06/05/18	06/05/18	Calculation
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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/31/18 12:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.3		%	1	1806007	06/01/18	06/04/18	Calculation	
pH	8.84		pH Units	"	1806008	06/01/18	06/01/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **05/31/18 12:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	8.93	0.0100	mmhos/cm	1	1806009	06/01/18	06/01/18	EPA 120.1	

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

Project: Cockroft Spreadfield

Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

COMPOSITE 9
1805392-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/31/18 12:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1806019	06/01/18	06/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/31/18 12:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/31/18 12:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1806078	06/06/18	06/08/18	EPA 8015M	

Date Sampled: **05/31/18 12:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		77.8 %	30-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **05/31/18 12:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.83	0.206	mg/kg dry	1	1806024	06/04/18	06/04/18	EPA 6020B	
Barium	341	0.412	"	"	"	"	"	"	
Boron	ND	4.12	"	"	"	"	"	"	

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

Project: Cockroft Spreadfield
Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

COMPOSITE 9
1805392-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cadmium	ND	0.206	mg/kg dry	1	1806024	06/04/18	06/04/18	EPA 6020B	
Chromium	1.77	0.412	"	"	"	"	"	"	
Copper	2.58	0.412	"	"	"	"	"	"	
Lead	2.48	0.206	"	"	"	"	"	"	
Nickel	2.28	0.412	"	"	"	"	"	"	
Selenium	ND	0.412	"	"	"	"	"	"	
Silver	ND	0.0206	"	"	"	"	"	"	
Zinc	9.89	0.412	"	"	"	"	"	"	

Total Mercury by EPA 7471

Date Sampled: **05/31/18 12:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0515	mg/kg dry	1	1806050	06/05/18	06/07/18	EPA 7471	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/31/18 12:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	1806098	06/01/18	06/01/18	EPA 7196A	

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

Date Sampled: **05/31/18 12:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	358	10.3	mg/kg dry	1	1806023	06/04/18	06/04/18	EPA 6020B	
Magnesium	125	5.15	"	"	"	"	"	"	
Sodium	57.7	5.15	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/31/18 12:37**

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

Project: Cockroft Spreadfield

Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

COMPOSITE 9
1805392-09 (Soil)

Summit Scientific

Calculated Analysis

Chromium+3 Calculated	1.77	0.300	mg/kg	1	1806118	06/07/18	06/07/18	Calculation
Sodium Adsorption Ratio	0.669	0.100	units	"	1806042	06/05/18	06/05/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/31/18 12:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.0		%	1	1806007	06/01/18	06/04/18	Calculation	
pH	9.00		pH Units	"	1806008	06/01/18	06/01/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **05/31/18 12:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.295	0.0100	mmhos/cm	1	1806009	06/01/18	06/01/18	EPA 120.1	

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

Project: Cockroft Spreadfield

Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 1806019 - EPA 5030 Soil MS

Blank (1806019-BLK1)

Prepared: 06/01/18 Analyzed: 06/03/18

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
Surrogate: 1,2-Dichloroethane-d4	0.0429		"	0.0396		108	23-173				
Surrogate: Toluene-d8	0.0402		"	0.0400		100	20-170				
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.8	21-167				

LCS (1806019-BS1)

Prepared: 06/01/18 Analyzed: 06/03/18

Benzene	0.103	0.0020	mg/kg	0.100		103	70-130				
Toluene	0.105	0.0050	"	0.100		105	70-130				
Ethylbenzene	0.102	0.0050	"	0.100		102	70-130				
m,p-Xylene	0.194	0.010	"	0.200		96.9	70-130				
o-Xylene	0.0996	0.0050	"	0.100		99.6	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0412		"	0.0396		104	23-173				
Surrogate: Toluene-d8	0.0405		"	0.0400		101	20-170				
Surrogate: 4-Bromofluorobenzene	0.0381		"	0.0400		95.2	21-167				

Matrix Spike (1806019-MS1)

Source: 1805382-01

Prepared: 06/01/18 Analyzed: 06/07/18

Benzene	0.0975	0.0020	mg/kg	0.100	ND	97.5	70-130				
Toluene	0.100	0.0050	"	0.100	ND	100	70-130				
Ethylbenzene	0.125	0.0050	"	0.100	ND	125	70-130				
m,p-Xylene	0.279	0.010	"	0.200	ND	139	70-130				QM-07
o-Xylene	0.108	0.0050	"	0.100	ND	108	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0430		"	0.0396		108	23-173				
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	20-170				
Surrogate: 4-Bromofluorobenzene	0.0409		"	0.0400		102	21-167				

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

Project: Cockroft Spreadfield

Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

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 1806019 - EPA 5030 Soil MS

Matrix Spike Dup (1806019-MSD1)	Source: 1805382-01			Prepared: 06/01/18		Analyzed: 06/07/18				
Benzene	0.101	0.0020	mg/kg	0.100	ND	101	70-130	3.92	30	
Toluene	0.105	0.0050	"	0.100	ND	105	70-130	4.47	30	
Ethylbenzene	0.130	0.0050	"	0.100	ND	130	70-130	4.34	30	
m,p-Xylene	0.283	0.010	"	0.200	ND	141	70-130	1.43	30	QM-07
o-Xylene	0.113	0.0050	"	0.100	ND	113	70-130	4.66	30	
Surrogate: 1,2-Dichloroethane-d4	0.0429		"	0.0396		108	23-173			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0407		"	0.0400		102	21-167			

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

Project: Cockroft Spreadfield

Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

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 1806078 - EPA 3550A

Blank (1806078-BLK1)

Prepared: 06/06/18 Analyzed: 06/07/18

C10-C28 (DRO) ND 50 mg/kg

LCS (1806078-BS1)

Prepared: 06/06/18 Analyzed: 06/07/18

C10-C28 (DRO) 439 50 mg/kg 500 87.8 70-130

Matrix Spike (1806078-MS1)

Source: 1805392-01

Prepared: 06/06/18 Analyzed: 06/07/18

C10-C28 (DRO) 485 50 mg/kg 500 ND 96.9 70-130

Matrix Spike Dup (1806078-MSD1)

Source: 1805392-01

Prepared: 06/06/18 Analyzed: 06/07/18

C10-C28 (DRO) 464 50 mg/kg 500 ND 92.7 70-130 4.39 20

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4600 West 60th Avenue
Arvada CO, 80003

Project: Cockroft Spreadfield

Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch 1806024 - EPA 3050B

Blank (1806024-BLK1)

Prepared & Analyzed: 06/04/18

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Boron	ND	4.00	"							
Chromium	ND	0.400	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Selenium	ND	0.400	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							

LCS (1806024-BS1)

Prepared & Analyzed: 06/04/18

Arsenic	37.9	0.200	mg/kg wet	40.0	94.8	80-120
Barium	42.7	0.400	"	40.0	107	80-120
Cadmium	2.26	0.200	"	2.00	113	80-120
Boron	36.7	4.00	"	40.0	91.8	80-120
Chromium	41.3	0.400	"	40.0	103	80-120
Copper	42.0	0.400	"	40.0	105	80-120
Lead	23.0	0.200	"	20.0	115	80-120
Nickel	40.9	0.400	"	40.0	102	80-120
Selenium	4.38	0.400	"	4.00	110	80-120
Silver	2.30	0.0200	"	2.00	115	80-120
Zinc	41.2	0.400	"	40.0	103	80-120

Duplicate (1806024-DUP1)

Source: 1805391-01

Prepared & Analyzed: 06/04/18

Arsenic	5.32	0.223	mg/kg dry	4.93	7.66	30
Barium	155	0.447	"	148	4.64	30
Cadmium	0.283	0.223	"	0.275	2.80	30
Boron	1.83	4.47	"	1.76	3.73	30
Chromium	15.2	0.447	"	14.6	4.54	30
Copper	15.5	0.447	"	15.0	3.06	30
Lead	11.6	0.223	"	11.4	2.54	30
Nickel	15.2	0.447	"	14.7	3.50	30
Selenium	0.460	0.447	"	0.472	2.54	30
Silver	0.141	0.0223	"	0.135	3.91	30
Zinc	48.7	0.447	"	46.9	3.64	30

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

Project: Cockroft Spreadfield

Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch 1806024 - EPA 3050B

Matrix Spike (1806024-MS1)

Source: 1805391-01

Prepared & Analyzed: 06/04/18

Arsenic	47.8	0.223	mg/kg dry	44.7	4.93	95.9	75-125			
Barium	194	0.447	"	44.7	148	103	75-125			
Boron	41.7	4.47	"	44.7	1.76	89.4	75-125			
Cadmium	2.55	0.223	"	2.23	0.275	102	75-125			
Chromium	63.6	0.447	"	44.7	14.6	110	75-125			
Copper	61.5	0.447	"	44.7	15.0	104	75-125			
Lead	29.8	0.223	"	22.3	11.4	82.6	75-125			
Nickel	60.3	0.447	"	44.7	14.7	102	75-125			
Selenium	4.34	0.447	"	4.47	0.472	86.6	75-125			
Silver	2.43	0.0223	"	2.23	0.135	103	75-125			
Zinc	95.3	0.447	"	44.7	46.9	108	75-125			

Matrix Spike Dup (1806024-MSD1)

Source: 1805391-01

Prepared & Analyzed: 06/04/18

Arsenic	51.0	0.223	mg/kg dry	44.7	4.93	103	75-125	6.61	25
Barium	201	0.447	"	44.7	148	117	75-125	3.13	25
Cadmium	2.82	0.223	"	2.23	0.275	114	75-125	9.74	25
Boron	43.1	4.47	"	44.7	1.76	92.5	75-125	3.28	20
Chromium	67.3	0.447	"	44.7	14.6	118	75-125	5.69	25
Copper	64.0	0.447	"	44.7	15.0	110	75-125	3.95	25
Lead	31.7	0.223	"	22.3	11.4	91.0	75-125	6.12	25
Nickel	63.8	0.447	"	44.7	14.7	110	75-125	5.77	25
Selenium	4.77	0.447	"	4.47	0.472	96.2	75-125	9.46	25
Silver	2.67	0.0223	"	2.23	0.135	113	75-125	9.29	25
Zinc	101	0.447	"	44.7	46.9	121	75-125	5.87	25

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

Project: Cockroft Spreadfield

Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

Total Mercury by EPA 7471 - Quality Control
Summit Scientific

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

Batch 1806050 - EPA 7471A

Blank (1806050-BLK1)										
					Prepared: 06/05/18 Analyzed: 06/07/18					
Mercury	ND	0.0500	mg/kg wet							
LCS (1806050-BS1)										
					Prepared: 06/05/18 Analyzed: 06/07/18					
Mercury	0.449	0.0500	mg/kg wet	0.500		89.8	80-120			
Duplicate (1806050-DUP1)										
					Source: 1805392-01 Prepared: 06/05/18 Analyzed: 06/07/18					
Mercury	0.0109	0.0543	mg/kg dry		0.0130			18.2	200	
Matrix Spike (1806050-MS1)										
					Source: 1805392-01 Prepared: 06/05/18 Analyzed: 06/07/18					
Mercury	0.537	0.0543	mg/kg dry	0.543	0.0130	96.4	75-125			
Matrix Spike Dup (1806050-MSD1)										
					Source: 1805392-01 Prepared: 06/05/18 Analyzed: 06/07/18					
Mercury	0.536	0.0543	mg/kg dry	0.543	0.0130	96.2	75-125	0.203	20	

Summit Scientific

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

Project: Cockroft Spreadfield

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Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch 1806098 - 3060A Mod

Blank (1806098-BLK1)		Prepared & Analyzed: 06/01/18								
Chromium, Hexavalent	ND	0.30	mg/kg wet							
LCS (1806098-BS1)		Prepared & Analyzed: 06/01/18								
Chromium, Hexavalent	24.4	0.30	mg/kg wet	25.0		97.4	80-120			
Duplicate (1806098-DUP1)		Source: 1805391-01			Prepared & Analyzed: 06/01/18					
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
Matrix Spike (1806098-MS1)		Source: 1805391-01			Prepared & Analyzed: 06/01/18					
Chromium, Hexavalent	26.9	0.30	mg/kg dry	27.9	ND	96.2	75-125			
Matrix Spike Dup (1806098-MSD1)		Source: 1805391-01			Prepared & Analyzed: 06/01/18					
Chromium, Hexavalent	26.7	0.30	mg/kg dry	27.9	ND	95.8	75-125	0.417	20	

Summit Scientific

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Reported:
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Soluble Nutrients by EPA 6020/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		

Batch 1806023 - General Preparation

Blank (1806023-BLK1)

Prepared & Analyzed: 06/04/18

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

LCS (1806023-BS1)

Prepared & Analyzed: 06/04/18

Calcium	444	10.0	mg/kg wet	500		88.7	70-130		
Magnesium	477	5.00	"	500		95.3	70-130		
Sodium	475	5.00	"	500		95.1	70-130		

Duplicate (1806023-DUP1)

Source: 1805336-04

Prepared & Analyzed: 06/04/18

Calcium	2220	12.2	mg/kg dry		2150			3.35	20
Magnesium	781	6.12	"		686			13.0	20
Sodium	109	6.12	"		115			4.98	20

Matrix Spike (1806023-MS1)

Source: 1805336-04

Prepared & Analyzed: 06/04/18

Calcium	2600	12.2	mg/kg dry	612	2150	73.4	70-130		
Magnesium	1290	6.12	"	612	686	98.0	70-130		
Sodium	692	6.12	"	612	115	94.2	70-130		

Matrix Spike Dup (1806023-MSD1)

Source: 1805336-04

Prepared & Analyzed: 06/04/18

Calcium	2720	12.2	mg/kg dry	612	2150	94.0	70-130	4.75	25
Magnesium	1220	6.12	"	612	686	86.7	70-130	5.50	25
Sodium	707	6.12	"	612	115	96.8	70-130	2.21	25

Summit Scientific

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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 1806007 - General Preparation

Duplicate (1806007-DUP1)	Source: 1805333-01			Prepared: 06/01/18 Analyzed: 06/04/18	
% Solids	97.5		%	96.7	0.737 20

Batch 1806008 - General Preparation

Duplicate (1806008-DUP1)	Source: 1805157-03			Prepared & Analyzed: 06/01/18	
pH	6.9		pH Units	7.0	1.01 20

Summit Scientific

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 Project Manager: Andy Verbonitz

Reported:
 06/08/18 19:08

Specific Conductance by EPA Method 120.1 - Quality Control
Summit Scientific

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

Batch 1806009 - General Preparation

Blank (1806009-BLK1)

Prepared & Analyzed: 06/01/18

Specific Conductance (EC) ND 0.0100 mmhos/cm

Duplicate (1806009-DUP1)

Source: 1805392-01

Prepared & Analyzed: 06/01/18

Specific Conductance (EC) 0.424 0.0100 mmhos/cm 0.426 0.376 20

Summit Scientific

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Arvada CO, 80003

Project: Cockroft Spreadfield

Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
06/08/18 19:08

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference