

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

December 07, 2015

Chris Roy
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: Castor 3-36

Enclosed are the results of analyses for samples received by Summit Scientific on 12/02/15 15:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury
President



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

Project: Castor 3-36
Project Number: 042915003
Project Manager: Chris Roy

Reported:
12/07/15 14:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG01	1512012-01	Soil	12/02/15 11:30	12/02/15 15:45
SS01	1512012-02	Soil	12/02/15 11:35	12/02/15 15:45
SS02	1512012-03	Soil	12/02/15 11:40	12/02/15 15:45
SS03	1512012-04	Soil	12/02/15 11:45	12/02/15 15:45
SS04	1512012-05	Soil	12/02/15 11:50	12/02/15 15:45
SS05	1512012-06	Soil	12/02/15 11:55	12/02/15 15:45
SS06	1512012-07	Soil	12/02/15 12:00	12/02/15 15:45
SS07	1512012-08	Soil	12/02/15 12:05	12/02/15 15:45
SS08	1512012-09	Soil	12/02/15 12:10	12/02/15 15:45
SS09	1512012-10	Soil	12/02/15 12:15	12/02/15 15:45
SS10	1512012-11	Soil	12/02/15 12:20	12/02/15 15:45

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

Project: Castor 3-36
Project Number: 042915003
Project Manager: Chris Roy

Reported:
12/07/15 14:35

Summit Scientific

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Page 1 of 2

Client: LFE
Address: 4600 W 60th ave
City/State/Zip: Arvada, CO
Phone: (303) 829-5767 Fax:
Sampler Name: P. Stasbeck
Project Manager: Chris Roy
E-Mail: croy@Henv.com
Project Name: Castor 3-36
Project Number: 042915003

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)	BTEX	DRO		Geo
B601	12/2/15	1130	1			X			X						HOLD pH, EC, SAR need results Monday Morning
SS01		1135								X	X	X			
SS02		1140													
SS03		1145													
SS04		1150													
SS05		1155													
SS06		1200													
SS07		1205													
SS08		1210													
SS09		1215													
Relinquished by: <u>DR</u> Date/Time: <u>12/2/15 1515</u>				Received by: <u>PR</u> Date/Time: <u>12/2/15 1515</u>				Turn Around Time (Check)				on ice			
Relinquished by: <u>MC</u> Date/Time: <u>12/2/15 1730</u>				Received by: <u>US</u> Date/Time: <u>12/2 1730</u>				Same Day <input type="checkbox"/> 72 Hours <input checked="" type="checkbox"/>							
Relinquished by: <u></u> Date/Time: <u></u>				Received in Lab by: <u></u> Date/Time: <u></u>				24 Hours <input type="checkbox"/> Standard <input type="checkbox"/>							
								Sample Integrity: Temperature Upon Receipt: <u>4.5°C</u>							
								Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>							

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4600 West 60th Avenue
Arvada CO, 80003

Project: Castor 3-36
Project Number: 042915003
Project Manager: Chris Roy

Reported:
12/07/15 14:35

1512012.7

Summit Scientific

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Page 2 of 2

Client: LTE
Address: 4600 W 60th Ave
City/State/Zip: Arvada, CO
Phone: (303) 829-5263 Fax:
Sampler Name: 2.5m 0.5m
Project Manager: Chris Roy
E-Mail: Croy@ltenv.com
Project Name: Castor 3-36
Project Number: 042915003

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix		Analyze For:				Special Instructions			
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Container Serial #	Other (Specify)	PTE	DRO		GRU	pH, EC, SAR	
SS10	12/2/15	1220	1			X						X	X	X	X		HOLD pH, EC, SAR Wed results Monday morning
Relinquished by: <u>[Signature]</u> Date/Time: <u>12/2/15 1545</u> Received by: <u>[Signature]</u> Date/Time: <u>12/2/15 1545</u> Turn Around Time (Check) Same Day <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 72 Hours <input checked="" type="checkbox"/> Standard																	
Relinquished by: <u>[Signature]</u> Date/Time: <u>12/2/15 1730</u> Received by: <u>[Signature]</u> Date/Time: <u>12/2 1730</u> Sample Integrity: Temperature Upon Receipt: <u>4.5°C</u> Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																	
Relinquished by: _____ Date/Time: _____ Received in Lab by: _____ Date/Time: _____																	

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4600 West 60th Avenue
Arvada CO, 80003

Project: Castor 3-36
Project Number: 042915003
Project Manager: Chris Roy

Reported:
12/07/15 14:35

BG01
1512012-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/02/15 11:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1512030	12/03/15	12/03/15	8015M	

Date Sampled: 12/02/15 11:30

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/02/15 11:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1512029	12/03/15	12/04/15	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 12/02/15 11:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	21-167		"	"	"	"	

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Project: Castor 3-36
Project Number: 042915003
Project Manager: Chris Roy

Reported:
12/07/15 14:35

SS01
1512012-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/02/15 11:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	920	50	mg/kg	1	1512030	12/03/15	12/03/15	8015M	

Date Sampled: 12/02/15 11:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		181 %	30-150		"	"	"	"	S-02

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/02/15 11:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1512029	12/03/15	12/04/15	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 12/02/15 11:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

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Project: Castor 3-36
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Reported:
12/07/15 14:35

SS02
1512012-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/02/15 11:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	2100	50	mg/kg	1	1512030	12/03/15	12/03/15	8015M	

Date Sampled: 12/02/15 11:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		251 %	30-150		"	"	"	"	S-02

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/02/15 11:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.046	0.0020	mg/kg	1	1512029	12/03/15	12/04/15	EPA 8260B	
Toluene	3.7	0.50	"	100	"	"	12/03/15	"	
Ethylbenzene	0.72	0.0050	"	1	"	"	12/04/15	"	
Xylenes (total)	1.9	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	57	0.50	"	"	"	"	"	"	

Date Sampled: 12/02/15 11:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		83.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		122 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.8 %	21-167		"	"	"	"	

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Project: Castor 3-36
Project Number: 042915003
Project Manager: Chris Roy

Reported:
12/07/15 14:35

SS03
1512012-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/02/15 11:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	450	50	mg/kg	1	1512030	12/03/15	12/05/15	8015M	

Date Sampled: 12/02/15 11:45

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/02/15 11:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1512029	12/03/15	12/04/15	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.013	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	3.5	0.50	"	"	"	"	"	"	

Date Sampled: 12/02/15 11:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		84.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		93.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.2 %	21-167		"	"	"	"	

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Project: Castor 3-36
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Reported:
12/07/15 14:35

SS04
1512012-05 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/02/15 11:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	640	50	mg/kg	1	1512030	12/03/15	12/05/15	8015M	

Date Sampled: 12/02/15 11:50

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/02/15 11:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.013	0.0020	mg/kg	1	1512029	12/03/15	12/04/15	EPA 8260B	
Toluene	0.11	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.084	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.24	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	10	0.50	"	"	"	"	"	"	

Date Sampled: 12/02/15 11:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		88.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.5 %	21-167		"	"	"	"	

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Project: Castor 3-36
Project Number: 042915003
Project Manager: Chris Roy

Reported:
12/07/15 14:35

SS05
1512012-06 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/02/15 11:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	490	50	mg/kg	1	1512030	12/03/15	12/05/15	8015M	

Date Sampled: 12/02/15 11:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		105 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/02/15 11:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1512029	12/03/15	12/04/15	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.80	0.50	"	"	"	"	"	"	

Date Sampled: 12/02/15 11:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		85.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		91.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.2 %	21-167		"	"	"	"	

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Project: Castor 3-36
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Project Manager: Chris Roy

Reported:
12/07/15 14:35

SS06
1512012-07 (Soil)

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Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/02/15 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	5400	50	mg/kg	1	1512030	12/03/15	12/03/15	8015M	

Date Sampled: 12/02/15 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		571 %	30-150		"	"	"	"	S-02

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/02/15 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	2.2	0.20	mg/kg	100	1512029	12/03/15	12/04/15	EPA 8260B	
Toluene	19	0.50	"	"	"	"	"	"	
Ethylbenzene	13	0.50	"	"	"	"	"	"	
Xylenes (total)	35	0.50	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	4100	50	"	"	"	"	"	"	

Date Sampled: 12/02/15 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		75.1 %	23-173		"	"	12/04/15	"	
Surrogate: Toluene-d8		141 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	21-167		"	"	"	"	

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Project: Castor 3-36
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Reported:
12/07/15 14:35

SS07
1512012-08 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/02/15 12:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	1500	50	mg/kg	1	1512030	12/03/15	12/03/15	8015M	

Date Sampled: 12/02/15 12:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		144 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/02/15 12:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.0034	0.0020	mg/kg	1	1512029	12/03/15	12/04/15	EPA 8260B	
Toluene	0.11	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.15	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.47	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	21	0.50	"	"	"	"	"	"	

Date Sampled: 12/02/15 12:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		84.5 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.5 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		88.7 %	21-167		"	"	"	"	

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Reported:
12/07/15 14:35

SS08
1512012-09 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/02/15 12:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	78	50	mg/kg	1	1512030	12/03/15	12/05/15	8015M	

Date Sampled: 12/02/15 12:10

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/02/15 12:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1512029	12/03/15	12/04/15	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.1	0.50	"	"	"	"	"	"	

Date Sampled: 12/02/15 12:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		84.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		91.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.8 %	21-167		"	"	"	"	

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Reported:
12/07/15 14:35

SS09
1512012-10 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/02/15 12:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1512030	12/03/15	12/05/15	8015M	

Date Sampled: 12/02/15 12:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		99.0 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/02/15 12:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0018	mg/kg	1	1512029	12/03/15	12/04/15	EPA 8260B	
Toluene	ND	0.0045	"	"	"	"	"	"	
Ethylbenzene	ND	0.0045	"	"	"	"	"	"	
Xylenes (total)	ND	0.0045	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.0	0.45	"	"	"	"	"	"	

Date Sampled: 12/02/15 12:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		82.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		91.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.4 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Castor 3-36
Project Number: 042915003
Project Manager: Chris Roy

Reported:
12/07/15 14:35

SS10
1512012-11 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/02/15 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	4700	50	mg/kg	1	1512030	12/03/15	12/03/15	8015M	

Date Sampled: 12/02/15 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		576 %	30-150		"	"	"	"	S-02

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/02/15 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.0034	0.0020	mg/kg	1	1512029	12/03/15	12/04/15	EPA 8260B	
Toluene	0.068	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.16	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.57	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	34	0.50	"	"	"	"	"	"	

Date Sampled: 12/02/15 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		86.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.2 %	21-167		"	"	"	"	

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4600 West 60th Avenue
Arvada CO, 80003

Project: Castor 3-36
Project Number: 042915003
Project Manager: Chris Roy

Reported:
12/07/15 14:35

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 1512030 - EPA 3550A

Blank (1512030-BLK1)

Prepared & Analyzed: 12/03/15

C10-C28 (DRO)	ND	50	mg/kg							
Surrogate: o-Terphenyl	13.9		"	12.5		111	30-150			

LCS (1512030-BS1)

Prepared & Analyzed: 12/03/15

C10-C28 (DRO)	505	50	mg/kg	499		101	73-134			
Surrogate: o-Terphenyl	14.9		"	12.5		119	30-150			

Matrix Spike (1512030-MS1)

Source: 1512012-01

Prepared & Analyzed: 12/03/15

C10-C28 (DRO)	506	50	mg/kg	485	37.6	96.4	50-148			
Surrogate: o-Terphenyl	14.6		"	12.2		120	30-150			

Matrix Spike Dup (1512030-MSD1)

Source: 1512012-01

Prepared & Analyzed: 12/03/15

C10-C28 (DRO)	532	50	mg/kg	472	37.6	105	50-148	5.06	13	
Surrogate: o-Terphenyl	13.8		"	11.8		117	30-150			

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4600 West 60th Avenue
Arvada CO, 80003

Project: Castor 3-36
Project Number: 042915003
Project Manager: Chris Roy

Reported:
12/07/15 14:35

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

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

Batch 1512029 - EPA 5030 Soil MS

Blank (1512029-BLK1)

Prepared & Analyzed: 12/03/15

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0342		"	0.0400		85.4	23-173			
Surrogate: Toluene-d8	0.0375		"	0.0400		93.7	20-170			
Surrogate: 4-Bromofluorobenzene	0.0358		"	0.0400		89.6	21-167			

LCS (1512029-BS1)

Prepared & Analyzed: 12/03/15

Benzene	0.0915	0.0020	mg/kg	0.100		91.5	58-130			
Toluene	0.0885	0.0050	"	0.100		88.5	61-134			
Ethylbenzene	0.0993	0.0050	"	0.0992		100	74-139			
m,p-Xylene	0.192	0.010	"	0.200		96.1	73-137			
o-Xylene	0.0942	0.0050	"	0.0984		95.8	73-141			
Xylenes (total)	0.286	0.0050	"				30-150			
Gasoline Range Hydrocarbons	2.19	0.50	"				30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0325		"	0.0400		81.2	23-173			
Surrogate: Toluene-d8	0.0392		"	0.0400		97.9	20-170			
Surrogate: 4-Bromofluorobenzene	0.0364		"	0.0400		90.9	21-167			

Matrix Spike (1512029-MS1)

Source: 1512012-01

Prepared & Analyzed: 12/03/15

Benzene	0.0932	0.0020	mg/kg	0.0977	ND	95.4	30-131			
Toluene	0.0888	0.0050	"	0.0977	ND	91.0	30-134			
Ethylbenzene	0.103	0.0050	"	0.0969	ND	106	22-153			
m,p-Xylene	0.199	0.010	"	0.195	ND	102	10-159			
o-Xylene	0.0962	0.0050	"	0.0961	ND	100	31-151			
Xylenes (total)	0.295	0.0050	"		ND		30-150			
Gasoline Range Hydrocarbons	2.24	0.50	"		ND		30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0339		"	0.0391		86.8	23-173			
Surrogate: Toluene-d8	0.0370		"	0.0391		94.7	20-170			
Surrogate: 4-Bromofluorobenzene	0.0342		"	0.0391		87.6	21-167			

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

Project: Castor 3-36
Project Number: 042915003
Project Manager: Chris Roy

Reported:
12/07/15 14:35

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

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

Batch 1512029 - EPA 5030 Soil MS

Matrix Spike Dup (1512029-MSD1)		Source: 1512012-01			Prepared & Analyzed: 12/03/15					
Benzene	0.0879	0.0020	mg/kg	0.0929	ND	94.6	30-131	5.84	34	
Toluene	0.0853	0.0050	"	0.0929	ND	91.8	30-134	4.07	30	
Ethylbenzene	0.0989	0.0050	"	0.0922	ND	107	22-153	3.68	24	
m,p-Xylene	0.190	0.010	"	0.186	ND	103	10-159	4.34	68	
o-Xylene	0.0937	0.0050	"	0.0914	ND	102	31-151	2.63	38	
Xylenes (total)	0.284	0.0050	"		ND		30-150	3.78	20	
Gasoline Range Hydrocarbons	2.12	0.50	"		ND		30-150	5.28	20	
Surrogate: 1,2-Dichloroethane-d4	0.0325		"	0.0372		87.4	23-173			
Surrogate: Toluene-d8	0.0353		"	0.0372		95.0	20-170			
Surrogate: 4-Bromofluorobenzene	0.0335		"	0.0372		90.1	21-167			

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

Project: Castor 3-36
Project Number: 042915003
Project Manager: Chris Roy

Reported:
12/07/15 14:35

Notes and Definitions

S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Summit Scientific

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A handwritten signature in black ink, appearing to be 'MSM'.