

# Summit Scientific

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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,



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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303-277-9310 • 303-374-3933 Fax

1512012.1

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

Page 1 of 2

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:				Special Instructions	
				HCl	HNO <sub>3</sub>	Xylene	Other (Specify)	Groundwater	Air - Canister Serial #	Other (Specify)	BTEX	DRD	Geo	PH, EC, SAR		
R601	12/2/15	1130	1			X			X			X	X	X		
SS01		1135														HOLD PH, EC, SAR
SS02		1140														
SS03		1145														
SS04		1150														
SS05		1155														
SS06		1200														need results Monday Morning
SS07		1205														
SS08		1210														
SS09		1215														
Relinquished by: <u>DJA</u>		Date/Time: <u>12/2/15 1515</u>	Received by: <u>FR</u>		Date/Time: <u>12/2/15 1515</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"/>		Notes <u>on ice</u>
Relinquished by: <u>MC</u>		Date/Time: <u>12/2/15 1730</u>	Received by: <u>MS</u>		Date/Time: <u>12/2 1730</u>	48 Hours <input type="checkbox"/>		Sample Integrity:		Temperature Upon Receipt: <u>4.5°C</u>		Intact: Yes <input type="checkbox"/>		No <input type="checkbox"/>		
Relinquished by:		Date/Time:	Received in Lab by:		Date/Time:											

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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

1512012.2

# 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-stunbrook  
Project Manager: Chris Roy  
E-Mail: croy@stenv.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 <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Container Serial #	Other (Specify)	PTEX	DIPO	GR0	pH, EC, SAR		
SS10	12/2/15	1220	1		X			X					X	X	X	X	HOLD pH, EC, SAR  need 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)				Notes:					
								Same Day <input type="checkbox"/> 72 Hours <input checked="" type="checkbox"/>				on kp					
								24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/>									
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									

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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

**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: <i>o</i> -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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4600 West 60th Avenue  
Arvada CO, 80003

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: <i>o</i> -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
<b>C10-C28 (DRO)</b>	<b>2100</b>	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
<i>Surrogate: o-Terphenyl</i>		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
<b>Benzene</b>	<b>0.046</b>	0.0020	mg/kg	1	1512029	12/03/15	12/04/15	EPA 8260B	
<b>Toluene</b>	<b>3.7</b>	0.50	"	100	"	"	12/03/15	"	
<b>Ethylbenzene</b>	<b>0.72</b>	0.0050	"	1	"	"	12/04/15	"	
<b>Xylenes (total)</b>	<b>1.9</b>	0.0050	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>57</b>	0.50	"	"	"	"	"	"	

Date Sampled: 12/02/15 11:40

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

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Arvada CO, 80003

Project: Castor 3-36  
Project Number: 042915003  
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**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: <i>o</i> -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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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
<b>C10-C28 (DRO)</b>	<b>640</b>	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
<i>Surrogate: o-Terphenyl</i>		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
<b>Benzene</b>	<b>0.013</b>	0.0020	mg/kg	1	1512029	12/03/15	12/04/15	EPA 8260B	
<b>Toluene</b>	<b>0.11</b>	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.084</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.24</b>	0.0050	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>10</b>	0.50	"	"	"	"	"	"	

Date Sampled: 12/02/15 11:50

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

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**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
<b>C10-C28 (DRO)</b>	<b>490</b>	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
<i>Surrogate: o-Terphenyl</i>		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	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.80</b>	0.50	"	"	"	"	"	"	

Date Sampled: 12/02/15 11:55

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

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Project Manager: Chris Roy

**Reported:**  
12/07/15 14:35

**SS06**  
**1512012-07 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 12/02/15 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>5400</b>	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
<i>Surrogate: o-Terphenyl</i>		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
<b>Benzene</b>	<b>2.2</b>	0.20	mg/kg	100	1512029	12/03/15	12/04/15	EPA 8260B	
<b>Toluene</b>	<b>19</b>	0.50	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>13</b>	0.50	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>35</b>	0.50	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>4100</b>	50	"	"	"	"	"	"	

Date Sampled: 12/02/15 12:00

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

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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
<b>C10-C28 (DRO)</b>	<b>1500</b>	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
<b>Benzene</b>	<b>0.0034</b>	0.0020	mg/kg	1	1512029	12/03/15	12/04/15	EPA 8260B	
<b>Toluene</b>	<b>0.11</b>	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.15</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.47</b>	0.0050	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>21</b>	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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Project Manager: Chris Roy

**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
<b>C10-C28 (DRO)</b>	<b>78</b>	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
<i>Surrogate: o-Terphenyl</i>		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	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>1.1</b>	0.50	"	"	"	"	"	"	

Date Sampled: 12/02/15 12:10

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

**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: <i>o</i> -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	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>2.0</b>	<b>0.45</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	

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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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
<b>C10-C28 (DRO)</b>	<b>4700</b>	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
<i>Surrogate: o-Terphenyl</i>		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
<b>Benzene</b>	<b>0.0034</b>	0.0020	mg/kg	1	1512029	12/03/15	12/04/15	EPA 8260B	
<b>Toluene</b>	<b>0.068</b>	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.16</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.57</b>	0.0050	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>34</b>	0.50	"	"	"	"	"	"	

Date Sampled: 12/02/15 12:20

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

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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 Level	Source		%REC		RPD		Notes
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit		

**Batch 1512030 - EPA 3550A**

<b>Blank (1512030-BLK1)</b>				Prepared & Analyzed: 12/03/15							
C10-C28 (DRO)	ND	50	mg/kg								
<i>Surrogate: o-Terphenyl</i>	13.9		"	12.5		111	30-150				
<b>LCS (1512030-BS1)</b>				Prepared & Analyzed: 12/03/15							
C10-C28 (DRO)	505	50	mg/kg	499		101	73-134				
<i>Surrogate: o-Terphenyl</i>	14.9		"	12.5		119	30-150				
<b>Matrix Spike (1512030-MS1)</b>				<b>Source: 1512012-01</b>		Prepared & Analyzed: 12/03/15					
C10-C28 (DRO)	506	50	mg/kg	485	37.6	96.4	50-148				
<i>Surrogate: o-Terphenyl</i>	14.6		"	12.2		120	30-150				
<b>Matrix Spike Dup (1512030-MSD1)</b>				<b>Source: 1512012-01</b>		Prepared & Analyzed: 12/03/15					
C10-C28 (DRO)	532	50	mg/kg	472	37.6	105	50-148	5.06		13	
<i>Surrogate: o-Terphenyl</i>	13.8		"	11.8		117	30-150				

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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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0342</i>		<i>"</i>	<i>0.0400</i>		<i>85.4</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0375</i>		<i>"</i>	<i>0.0400</i>		<i>93.7</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0358</i>		<i>"</i>	<i>0.0400</i>		<i>89.6</i>	<i>21-167</i>			

**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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0325</i>		<i>"</i>	<i>0.0400</i>		<i>81.2</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0392</i>		<i>"</i>	<i>0.0400</i>		<i>97.9</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0364</i>		<i>"</i>	<i>0.0400</i>		<i>90.9</i>	<i>21-167</i>			

**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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0339</i>		<i>"</i>	<i>0.0391</i>		<i>86.8</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0370</i>		<i>"</i>	<i>0.0391</i>		<i>94.7</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0342</i>		<i>"</i>	<i>0.0391</i>		<i>87.6</i>	<i>21-167</i>			

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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 Level	Source Result	%REC		RPD		Notes
	Result	Limit			Units	%REC	Limits	RPD	

**Batch 1512029 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (1512029-MSD1)</b>	<b>Source: 1512012-01</b>			<b>Prepared &amp; Analyzed: 12/03/15</b>						
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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0325</i>		<i>"</i>	<i>0.0372</i>		<i>87.4</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0353</i>		<i>"</i>	<i>0.0372</i>		<i>95.0</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0335</i>		<i>"</i>	<i>0.0372</i>		<i>90.1</i>	<i>21-167</i>			

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4600 West 60th Avenue  
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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