

# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

June 18, 2014

Rob Fishburn

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: SHE - Beaver Durham 12-32

Enclosed are the results of analyses for samples received by Summit Scientific on 05/30/14 08:40. 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' or 'Shrewsbury', with a long, sweeping horizontal line extending to the right.

Ben Shrewsbury

President / Laboratory Manager



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

Project: SHE - Beaver Durham 12-32

Project Number: 0343-12009  
Project Manager: Rob Fishburn

Reported:  
06/18/14 18:18

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C01	1405171-01	Soil	05/29/14 13:00	05/30/14 08:40

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S<sub>2</sub>

741 Corporate Circle Suite 1 • Golden, Colorado 80401  
303-277-4910 • 303-374-5933 Fax

Client: LT Environmental  
Address: 820 Megan Avenue, Unit B  
City/State/Zip: Rifle, CO, 81650  
Phone: 970-285-5985 Fax: 970-285-2467  
Project Name: Beaver Durham 12-32  
Project Number:  
Sample Name: Steel Slag/Leach  
Project Manager: Rob Fishburn  
E-Mail: rfishburn@ltenv.com  
Page 1 of 1

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative	Matrix	Analyze For:	Special Instructions	Notes
C01	5/29/14	13:00	4	None	Soil	<input checked="" type="checkbox"/> VOCs <input checked="" type="checkbox"/> SVOCs <input checked="" type="checkbox"/> PCBs <input checked="" type="checkbox"/> PAHs <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> GPC/DEO <input checked="" type="checkbox"/> pH <input checked="" type="checkbox"/> EC <input checked="" type="checkbox"/> Conductivity	Same day TAT on BTEX and TPH GPC/DEO only, hold on other analyses. 16 per RE, run all remaining analyses per above std TAT	Turn Around Time (Check) <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/> Standard
Relinquished by:	Date Time:	Received by:	Date Time:	Received in Lab by:	Date Time:	Relinquished by:	Date Time:	Sample Integrity: Temperature Upon Receipt: <u>4.4</u> Image: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Relinquished by:	Date Time:	Received by:	Date Time:	Received in Lab by:	Date Time:	Relinquished by:	Date Time:	

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Project Number: 0343-12009  
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06/18/14 18:18

**C01**  
**1405171-01 (Soil)**

**Summit Scientific**

**Test America**

Date Sampled: **05/29/14 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Ignitability	No Flash Detected		°F	1	1406142	06/04/14	06/04/14	EPA 1010	

Date Sampled: **05/29/14 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0100	mg/L	"	"	06/10/14	06/10/14	TCLP Volatiles by EPA 8260B	
2-Butanone	ND	0.100	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0100	"	"	"	"	"	"	
Chlorobenzene	ND	0.0100	"	"	"	"	"	"	
Chloroform	ND	0.0100	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.0100	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0100	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0100	"	"	"	"	"	"	
Trichloroethene	ND	0.0100	"	"	"	"	"	"	
Vinyl chloride	ND	0.0100	"	"	"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/29/14 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	2900	50	mg/kg	1	1405182	05/30/14	05/30/14	8015M	

Date Sampled: **05/29/14 13:00**

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

**Volatile Organic Compounds by EPA Method 8260B**

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06/18/14 18:18

**C01**  
**1405171-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **05/29/14 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>0.28</b>	0.0020	mg/kg	1	1405181	05/30/14	05/30/14	EPA 8260B	
<b>Toluene</b>	<b>0.010</b>	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.71</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>6.0</b>	0.50	"	100	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>940</b>	50	"	"	"	"	05/30/14	"	

Date Sampled: **05/29/14 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		112 %	23-173		"	"	05/30/14	"	
<i>Surrogate: Toluene-d8</i>		650 %	20-170		"	"	"	"	S-02
<i>Surrogate: 4-Bromofluorobenzene</i>		416 %	21-167		"	"	"	"	S-02

**TCLP Metals by EPA SW846 6020/7471**

Date Sampled: **05/29/14 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Arsenic</b>	<b>0.00530</b>	0.000600	mg/L	1	1406046	06/06/14	06/09/14	EPA 6020A-TCLP	
<b>Barium</b>	<b>1.37</b>	0.00160	"	"	"	"	06/10/14	"	
<b>Cadmium</b>	<b>0.00250</b>	0.0000600	"	"	"	"	06/09/14	"	
<b>Chromium</b>	<b>0.00466</b>	0.00150	"	"	"	"	"	"	
<b>Lead</b>	<b>0.357</b>	0.000100	"	"	"	"	"	"	
Selenium	ND	0.000800	"	"	"	"	"	"	
Silver	ND	0.0000300	"	"	"	"	"	"	

Date Sampled: **05/29/14 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0500	"	"	1406050	06/06/14	06/09/14	EPA 7471A-TCLP	

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Project Number: 0343-12009  
Project Manager: Rob Fishburn

**Reported:**  
06/18/14 18:18

**C01**  
**1405171-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/29/14 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>7.70</b>	0.100	pH Units	1	1406004	06/02/14	06/02/14	EPA 9045	

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**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
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Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch 1405182 - EPA 3550A**

<b>Blank (1405182-BLK1)</b>				Prepared & Analyzed: 05/30/14						
C10-C28 (DRO)	ND	50	mg/kg							
<b>LCS (1405182-BS1)</b>				Prepared & Analyzed: 05/30/14						
C10-C28 (DRO)	549	50	mg/kg	501		109	73-134			
<b>LCS (1405182-BS2)</b>				Prepared: 05/30/14 Analyzed: 05/31/14						
C10-C28 (DRO)	578	50	mg/kg	501		115	73-134			
<b>Matrix Spike (1405182-MS1)</b>				<b>Source: 1405175-02</b>		Prepared & Analyzed: 05/30/14				
C10-C28 (DRO)	497	50	mg/kg	485	ND	102	50-148			
<b>Matrix Spike (1405182-MS2)</b>				<b>Source: 1405175-01</b>		Prepared: 05/30/14 Analyzed: 05/31/14				
C10-C28 (DRO)	503	50	mg/kg	470	ND	107	50-148			
<b>Matrix Spike Dup (1405182-MSD1)</b>				<b>Source: 1405175-02</b>		Prepared & Analyzed: 05/30/14				
C10-C28 (DRO)	475	50	mg/kg	482	ND	98.5	50-148	4.67	13	
<b>Matrix Spike Dup (1405182-MSD2)</b>				<b>Source: 1405175-01</b>		Prepared: 05/30/14 Analyzed: 05/31/14				
C10-C28 (DRO)	488	50	mg/kg	466	ND	105	50-148	3.12	13	

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**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 1405181 - EPA 5030 Soil MS**

**Blank (1405181-BLK1)**

Prepared & Analyzed: 05/30/14

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0434		"	0.0397	109	23-173				
Surrogate: Toluene-d8	0.0394		"	0.0400	98.6	20-170				
Surrogate: 4-Bromofluorobenzene	0.0426		"	0.0400	106	21-167				

**LCS (1405181-BS1)**

Prepared & Analyzed: 05/30/14

Benzene	0.116	0.0020	mg/kg	0.100	116	58-130				
Toluene	0.122	0.0050	"	0.100	122	61-134				
Ethylbenzene	0.129	0.0050	"	0.0992	130	74-139				
m,p-Xylene	0.251	0.010	"	0.200	126	73-137				
o-Xylene	0.131	0.0050	"	0.0984	133	73-141				
Surrogate: 1,2-Dichloroethane-d4	0.0404		"	0.0397	102	23-173				
Surrogate: Toluene-d8	0.0392		"	0.0400	98.0	20-170				
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400	101	21-167				

**LCS (1405181-BS2)**

Prepared & Analyzed: 05/30/14

Benzene	0.115	0.0020	mg/kg	0.100	115	58-130				
Toluene	0.121	0.0050	"	0.100	121	61-134				
Ethylbenzene	0.129	0.0050	"	0.0992	130	74-139				
m,p-Xylene	0.248	0.010	"	0.200	124	73-137				
o-Xylene	0.132	0.0050	"	0.0984	134	73-141				
Surrogate: 1,2-Dichloroethane-d4	0.0448		"	0.0397	113	23-173				
Surrogate: Toluene-d8	0.0403		"	0.0400	101	20-170				
Surrogate: 4-Bromofluorobenzene	0.0414		"	0.0400	104	21-167				

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**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 1405181 - EPA 5030 Soil MS**

Matrix Spike (1405181-MS1)		Source: 1405175-01			Prepared & Analyzed: 05/30/14					
Benzene	0.109	0.0020	mg/kg	0.0943	ND	115	30-131			
Toluene	0.114	0.0050	"	0.0943	ND	121	30-134			
Ethylbenzene	0.125	0.0050	"	0.0936	ND	133	22-153			
m,p-Xylene	0.242	0.010	"	0.188	ND	128	10-159			
o-Xylene	0.128	0.0050	"	0.0928	ND	137	31-151			
Surrogate: 1,2-Dichloroethane-d4	0.0409		"	0.0375		109	23-173			
Surrogate: Toluene-d8	0.0373		"	0.0377		98.9	20-170			
Surrogate: 4-Bromofluorobenzene	0.0387		"	0.0377		103	21-167			

Matrix Spike (1405181-MS2)		Source: 1405175-02			Prepared & Analyzed: 05/30/14					
Benzene	0.108	0.0020	mg/kg	0.0929	ND	116	30-131			
Toluene	0.112	0.0050	"	0.0929	ND	121	30-134			
Ethylbenzene	0.120	0.0050	"	0.0922	ND	130	22-153			
m,p-Xylene	0.229	0.010	"	0.186	ND	124	10-159			
o-Xylene	0.123	0.0050	"	0.0914	ND	135	31-151			
Surrogate: 1,2-Dichloroethane-d4	0.0411		"	0.0369		111	23-173			
Surrogate: Toluene-d8	0.0376		"	0.0372		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0372		102	21-167			

Matrix Spike Dup (1405181-MSD1)		Source: 1405175-01			Prepared & Analyzed: 05/30/14					
Benzene	0.112	0.0020	mg/kg	0.0980	ND	114	30-131	3.17	34	
Toluene	0.118	0.0050	"	0.0980	ND	121	30-134	3.70	30	
Ethylbenzene	0.131	0.0050	"	0.0973	ND	134	22-153	4.55	24	
m,p-Xylene	0.251	0.010	"	0.196	ND	128	10-159	3.85	68	
o-Xylene	0.135	0.0050	"	0.0965	ND	140	31-151	5.82	38	
Surrogate: 1,2-Dichloroethane-d4	0.0419		"	0.0389		108	23-173			
Surrogate: Toluene-d8	0.0390		"	0.0392		99.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0406		"	0.0392		104	21-167			

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06/18/14 18:18

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

**Batch 1405181 - EPA 5030 Soil MS**

Matrix Spike Dup (1405181-MSD2)	Source: 1405175-02			Prepared & Analyzed: 05/30/14						
Benzene	0.115	0.0020	mg/kg	0.0990	ND	116	30-131	6.17	34	
Toluene	0.119	0.0050	"	0.0990	ND	120	30-134	5.76	30	
Ethylbenzene	0.127	0.0050	"	0.0982	ND	130	22-153	6.05	24	
m,p-Xylene	0.247	0.010	"	0.198	ND	125	10-159	7.27	68	
o-Xylene	0.131	0.0050	"	0.0974	ND	135	31-151	6.44	38	
Surrogate: 1,2-Dichloroethane-d4	0.0435		"	0.0393		111	23-173			
Surrogate: Toluene-d8	0.0401		"	0.0396		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0406		"	0.0396		103	21-167			

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**TCLP Metals by EPA SW846 6020/7471 - Quality Control**  
**Summit Scientific**

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

**Batch 1406046 - EPA 3010A**

**Blank (1406046-BLK1)**

Prepared: 06/06/14 Analyzed: 06/09/14

Arsenic	ND	0.000600	mg/L
Barium	ND	0.00160	"
Cadmium	ND	0.0000600	"
Chromium	ND	0.00150	"
Lead	ND	0.000100	"
Selenium	ND	0.000800	"
Silver	ND	0.0000300	"

**Blank (1406046-BLK2)**

Prepared: 06/06/14 Analyzed: 06/09/14

Arsenic	ND	0.000600	mg/L
Barium	0.0179	0.00160	"
Cadmium	ND	0.0000600	"
Chromium	ND	0.00150	"
Lead	ND	0.000100	"
Selenium	ND	0.000800	"
Silver	ND	0.0000300	"

**LCS (1406046-BS1)**

Prepared: 06/06/14 Analyzed: 06/09/14

Arsenic	0.0495	0.000600	mg/L	0.0500	98.9	80-120
Barium	5.78	0.00160	"	4.50	128	80-120
Cadmium	0.0180	0.0000600	"	0.0200	89.8	80-120
Chromium	0.197	0.00150	"	0.200	98.4	80-120
Lead	0.155	0.000100	"	0.150	104	80-120
Selenium	0.0237	0.000800	"	0.0250	94.7	80-120
Silver	0.00133	0.0000300	"	0.00500	26.6	80-120

**LCS Dup (1406046-BSD1)**

Prepared: 06/06/14 Analyzed: 06/09/14

Arsenic	0.0487	0.000600	mg/L	0.0500	97.3	80-120	1.61	20
Barium	5.30	0.00160	"	4.50	118	80-120	8.71	20
Cadmium	0.0181	0.0000600	"	0.0200	90.4	80-120	0.674	20
Chromium	0.194	0.00150	"	0.200	97.2	80-120	1.24	20
Lead	0.161	0.000100	"	0.150	107	80-120	3.53	20
Selenium	0.0237	0.000800	"	0.0250	94.8	80-120	0.0418	20
Silver	0.00132	0.0000300	"	0.00500	26.5	80-120	0.430	20

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**TCLP Metals by EPA SW846 6020/7471 - Quality Control**  
**Summit Scientific**

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

**Batch 1406046 - EPA 3010A**

Matrix Spike (1406046-MS1)		Source: 1406035-01			Prepared: 06/06/14		Analyzed: 06/09/14			
Arsenic	0.0479	0.000600	mg/L	0.0500	0.00162	92.5	75-125			
Barium	6.04	0.00160	"	4.50	0.183	130	75-125			
Cadmium	0.0179	0.0000600	"	0.0200	0.00000890	89.2	75-125			
Chromium	0.180	0.00150	"	0.200	0.00101	89.7	75-125			
Lead	0.158	0.000100	"	0.150	0.000268	105	75-125			
Selenium	0.0282	0.000800	"	0.0250	0.00333	99.4	75-125			
Silver	0.00130	0.0000300	"	0.00500	ND	26.0	75-125			

Matrix Spike Dup (1406046-MSD1)		Source: 1406035-01			Prepared: 06/06/14		Analyzed: 06/09/14			
Arsenic	0.0499	0.000600	mg/L	0.0500	0.00162	96.6	75-125	4.27	25	
Barium	6.15	0.00160	"	4.50	0.183	133	75-125	1.71	25	
Cadmium	0.0180	0.0000600	"	0.0200	0.00000890	89.8	75-125	0.607	25	
Chromium	0.189	0.00150	"	0.200	0.00101	94.2	75-125	4.83	25	
Lead	0.161	0.000100	"	0.150	0.000268	107	75-125	1.96	25	
Selenium	0.0278	0.000800	"	0.0250	0.00333	98.1	75-125	1.21	25	
Silver	0.00128	0.0000300	"	0.00500	ND	25.7	75-125	1.32	25	

**Batch 1406050 - EPA 1311**

Blank (1406050-BLK1)					Prepared: 06/06/14		Analyzed: 06/09/14			
Mercury	ND	0.0500	mg/L							
Blank (1406050-BLK2)					Prepared: 06/06/14		Analyzed: 06/09/14			
Mercury	ND	0.0500	mg/L							
LCS (1406050-BS1)					Prepared: 06/06/14		Analyzed: 06/09/14			
Mercury	0.00200	0.0500	mg/L	0.00133		150	59-141			

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**Reported:**  
06/18/14 18:18

**TCLP Metals by EPA SW846 6020/7471 - Quality Control**  
**Summit Scientific**

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

**Batch 1406050 - EPA 1311**

**LCS Dup (1406050-BSD1)**

Prepared: 06/06/14 Analyzed: 06/09/14

Mercury	0.00186	0.0500	mg/L	0.00133		139	59-141	7.24	11
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**Matrix Spike (1406050-MS1)**

**Source: 1405171-01**

Prepared: 06/06/14 Analyzed: 06/09/14

Mercury	0.00200	0.0500	mg/L	0.00133	ND	150	42-153		
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**Matrix Spike Dup (1406050-MSD1)**

**Source: 1405171-01**

Prepared: 06/06/14 Analyzed: 06/09/14

Mercury	0.00201	0.0500	mg/L	0.00133	ND	151	42-153	0.673	22
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Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



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

Project: SHE - Beaver Durham 12-32

Project Number: 0343-12009  
Project Manager: Rob Fishburn

**Reported:**  
06/18/14 18:18

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

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

**Batch 1406004 - General Preparation**

**LCS (1406004-BS1)**

Prepared & Analyzed: 06/02/14

pH	8.18	0.100	pH Units	8.00	102	0-200
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**Duplicate (1406004-DUP1)**

**Source: 1406001-01**

Prepared & Analyzed: 06/02/14

pH	8.11	0.100	pH Units	8.04	0.867	20
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Summit Scientific

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4600 West 60th Avenue  
Arvada CO, 80003

Project: SHE - Beaver Durham 12-32

Project Number: 0343-12009  
Project Manager: Rob Fishburn

**Reported:**  
06/18/14 18:18

### 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.

NO        No Flash Detected

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