



July 8, 2015

Mr. Rick Allison
Environmental Protection Specialist
1120 Lincoln Street, Suite 801
Denver, Colorado 80203

**RE: Cover Letter
Supplemental Form 19 and Closure Request
Synergy Resources
South 6-21D
Windsor, Colorado
Spill/Release Point ID: 442088**

Dear Mr. Allison:

LT Environmental (LTE) has drafted this Supplemental Form 19 and Closure Request for the South 6-21D (Site) release (Spill/Release Point ID:442088) on behalf of Synergy Resources Corporation (Synergy). The Site location is provided in Figure 1.

On June 10, 2015 Synergy discovered a production tank drain line was releasing condensate to the ground surface around and beneath a production tank at the Site. Synergy stopped the leak and submitted an initial spill report within 24 hours of discovery. Synergy estimates that between 1 and 5 barrels of condensate were released. The condensate release was confined to within the bermed tank battery area.

Synergy retained LTE to collect 1 soil sample (SS01@1.5) from 0 to 1.5 feet below ground surface (bgs) and within the limits of the release on June 8, 2015. LTE submitted the soils to Summit Scientific (Summit), of Golden Colorado for benzene, toluene, ethylbenzene, total xylenes (BTEX) and total petroleum hydrocarbon (TPH)-gasoline range organics (GRO) under the US Environmental Protection Agency (EPA) method 8260 and TPH-diesel range organics (DRO) under EPA method 8015. The initial soil sample location is provided on Figure 2.

The COGCC Table 910-1 lists the maximum concentration level (MCL) for BTEX and TPH at 0.17 milligram per kilogram (mg/Kg), 85 mg/Kg, 100 mg/Kg, 175 mg/Kg, and 500 mg/Kg respectively. The initial surficial soil sample (SS01@1.5') exceeded the MCLs for benzene at a concentration of 2.5 mg/Kg and TPH at a concentration of 3,700 mg/Kg. Laboratory analytical results are reported in Table 1.

Synergy drained and removed the production tank and began excavation of soils impacted with hydrocarbons. Synergy delineated the soils for hydrocarbon impacts using a photoionization detector (PID), excavated the impacted soils, and transported them to a waste management facility



under waste manifest protocol for disposal. The extent of the excavation was approximately 12 feet in length, 8 feet wide and 5 feet deep. No groundwater was encountered during the excavation.

LTE returned to the Site and collected 2 confirmation soil samples (FS01@5' and FS02@5') from the floor of the excavation and submitted them to Summit for BTEX, TPH-GRO and TPH-DRO analysis on June 12, 2015. BTEX concentrations were reported as non-detect at or above the laboratory reporting limit for both confirmation soil samples. TPH was reported at a concentration of 271 mg/Kg for floor sample FS01@5' which is below the COGCC Table 910-1 MCL of 500 mg/Kg. TPH was reported as non-detect at or above the laboratory reporting limit for the floor sample FS02@5'. The sample locations are provided in Figure 2 and the laboratory analytical results are reported in Table 1.

The conformation soil samples collected from the excavation had TPH and BTEX concentrations below COGCC Table 910-1 MCLs. Based on these analytical results LTE respectfully requests that the COGCC grant a decision of no further remediation action for the Site.

Sincerely,

LT ENVIRONMENTAL, INC.

A handwritten signature in black ink that reads 'Jess Alexander'.

Jess Alexander
Project Environmental Scientist

A handwritten signature in black ink that reads 'Steve Kahn'.

Steve Kahn, P.E.
Principal

cc:

Attachments

Figure 1 – Site Location

Figure 2 – Site Map

Table 1 – Soil Sample Analytical Result

Laboratory Analytical Report

FIGURES

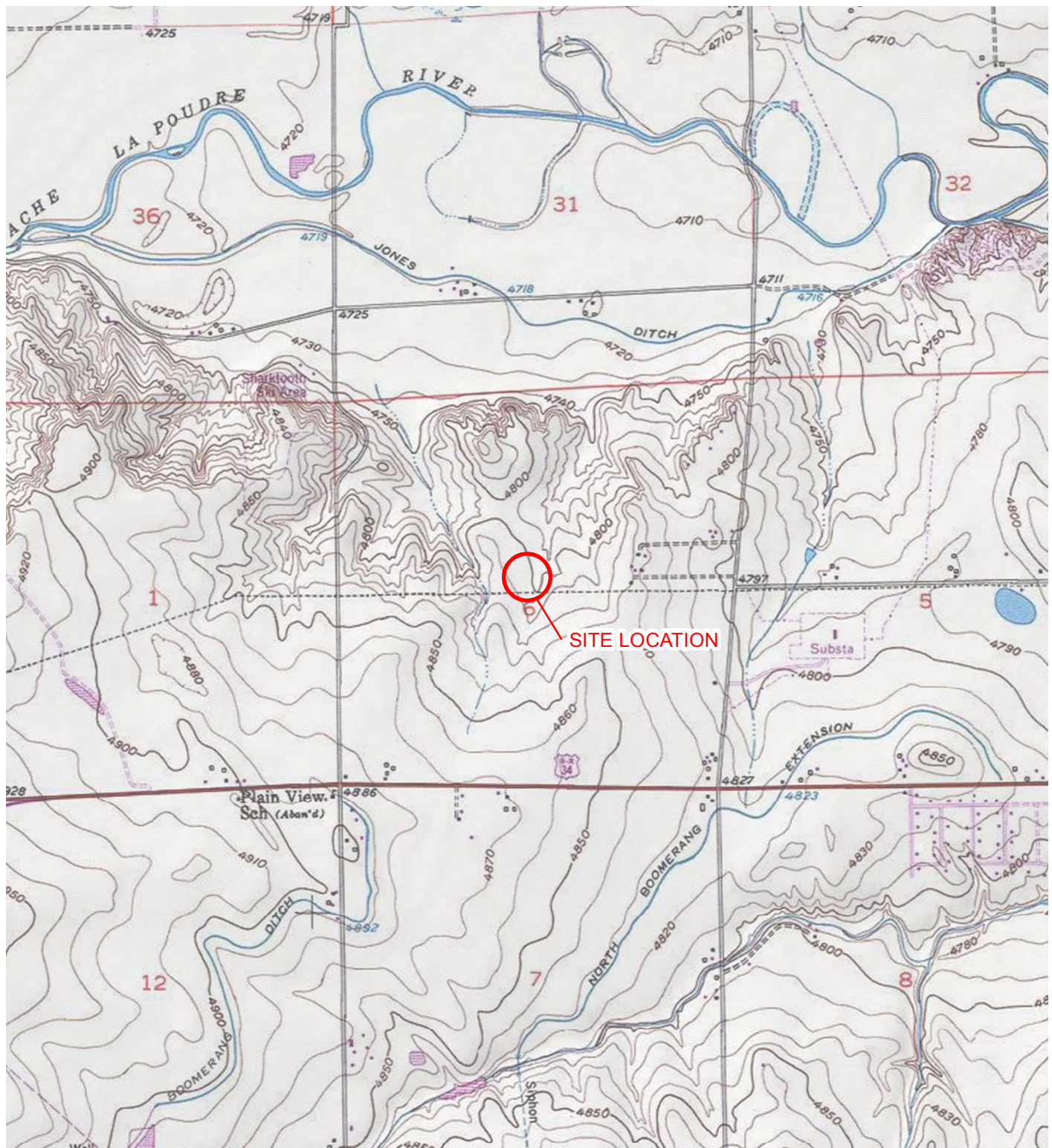


IMAGE COURTESY OF ESRI/USGS

LEGEND

 SITE LOCATION

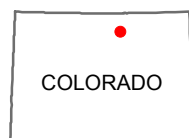
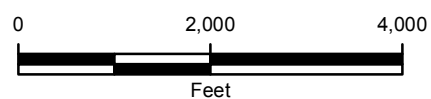


FIGURE 1
SITE LOCATION MAP
SOUTH 6-21D
WELD COUNTY, COLORADO



SYNERGY RESOURCES CORPORATION

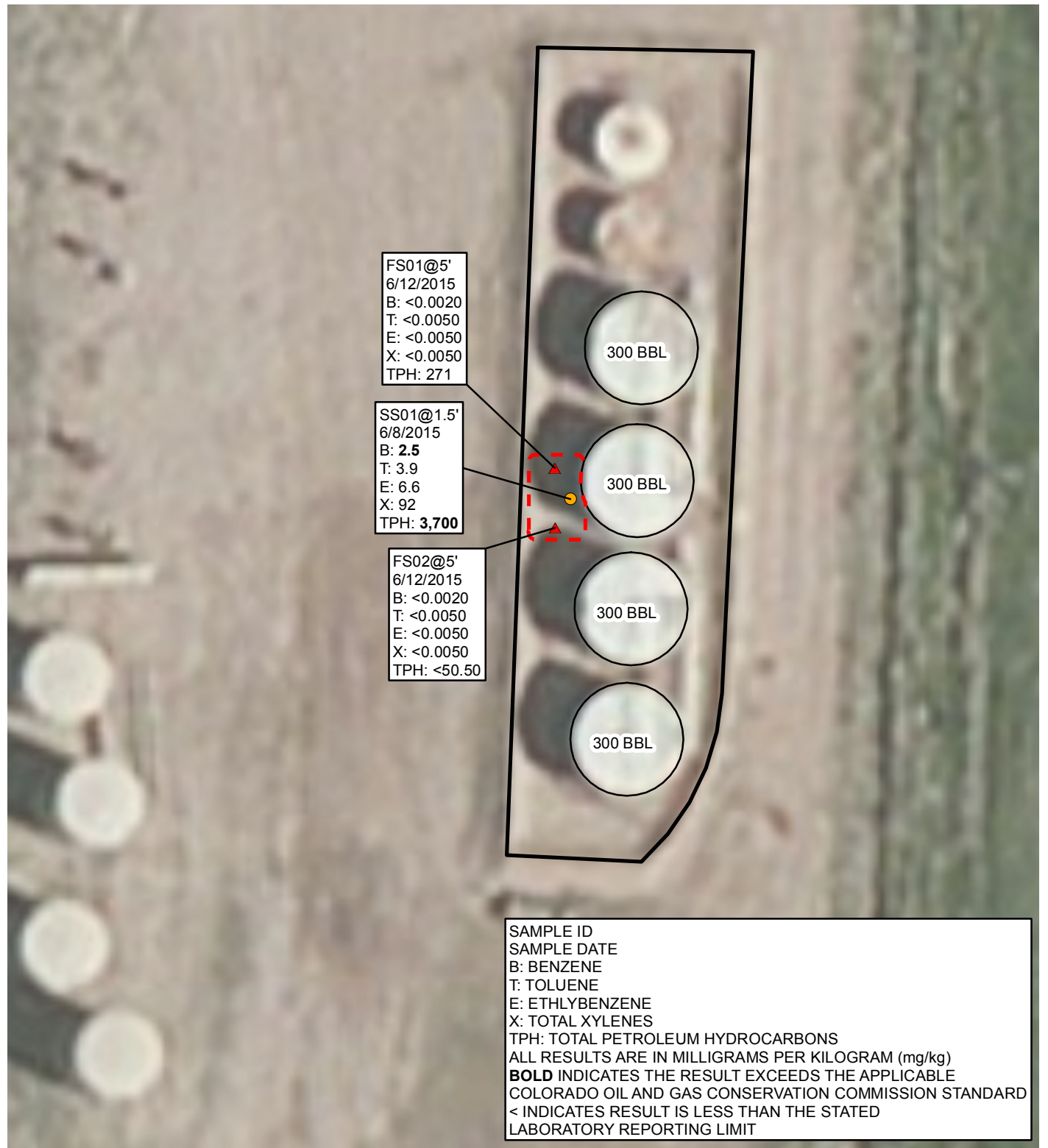


IMAGE COURTESY OF ESRI

LEGEND

- ▲ FLOOR SOIL SAMPLE
- SURFACE SOIL SAMPLE
- APPROXIMATE EXCAVATION EXTENT
- BERM
- BBL: BARREL

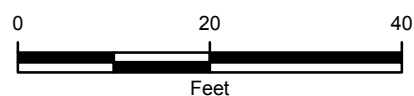


FIGURE 2
EXCAVATION SITE MAP
SOUTH 6-21D
WELD COUNTY, COLORADO

SYNERGY RESOURCES CORPORATION



TABLES

TABLE 1

**EXCAVATION SOIL ANALYTICAL RESULTS
SOUTH 6-21D TANK BATTERY
WELD COUNTY, COLORADO
SYNERGY RESOURCES CORPORATION**

Soil Sample	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	TPH (mg/kg)
FS01 @ 5'	6/12/2015	<0.0020	<0.0050	<0.0050	<0.0050	51	220	271
FS02 @ 5'	6/12/2015	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50.50
SS01 @ 1.5'	6/8/2015	2.5	3.9	6.6	92	2,500.0	1,200	3,700
COGCC Table 910-1 Standard		0.17	85	100	175	--	--	500

NOTES:

COGCC - Colorado Oil and Gas Conservation Commission

DRO - diesel range organics analyzed by EPA Method 8015

GRO - gasoline range organics analyzed by EPA Method 8260B

mg/kg - milligrams per kilogram

TPH - total petroleum hydrocarbons is the sum of GRO and DRO

Bold indicates the result exceeds the applicable standard

< - indicates result is less than the stated laboratory reporting limit

-- - not applicable

Benzene, toluene, ethylbenzene, total xylenes, and naphthalene analyzed by EPA Method 8260B

LABOATORY ANALYTICAL REPORT



Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

June 10, 2015

Jess Alexander
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: South 6-21D

Enclosed are the results of analyses for samples received by Summit Scientific on 06/09/15 08:25. 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: South 6-21D

Project Number: [none]
Project Manager: Jess Alexander

Reported:
06/10/15 08:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@1.5	1506078-01	Soil	06/08/15 17:45	06/09/15 08:25

Summit Scientific

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

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: South 6-21D

Project Number: [none]
Project Manager: Jess Alexander

Reported:
06/10/15 08:13

Summit Scientific

S₂

1506078

741 Corporate Circle, Suite J&K ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933

Page 1 of 1

Client: LT Environmental, Inc.

Project Manager: Jess Alexander

Address: 4600 West 60th Ave

E-Mail: jalexander@LTEnv.com

City/State/Zip: Arvada, CO 80003

Phone: 303-433-9788

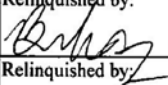
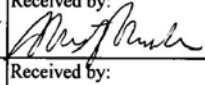
Fax: 303-433-1432

Project Name: South 6-21D

Sampler Name: Brandon Finn

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions
					HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	BTEX	DRO	GRU		
1	SSO1@1.5	06/09/2015	1745	1			X			X				X	X	X	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Relinquished by: 	Date/Time: 06/09/2015 0825	Received by: 	Date/Time: 6/9/2015 8:25	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input checked="" type="checkbox"/> 72 hours <input type="checkbox"/>	
				24 hours <input type="checkbox"/> Standard <input type="checkbox"/>	
				48 hours <input type="checkbox"/>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:	
				Temperature Upon Receipt: 4.6	
				Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	

www.s2scientific.com

Summit Scientific

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

Project: South 6-21D
Project Number: [none]
Project Manager: Jess Alexander

Reported:
06/10/15 08:13

SS01@1.5
1506078-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/08/15 17:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	1200	50	mg/kg	1	1506103	06/09/15	06/09/15	8015M	

Date Sampled: **06/08/15 17:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		126 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/08/15 17:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	2.5	0.20	mg/kg	100	1506102	06/09/15	06/09/15	EPA 8260B	
Toluene	3.9	0.50	"	"	"	"	"	"	
Ethylbenzene	6.6	0.50	"	"	"	"	"	"	
Xylenes (total)	92	0.50	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	2500	50	"	"	"	"	"	"	

Date Sampled: **06/08/15 17:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		113 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		120 %	21-167		"	"	"	"	

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: South 6-21D
Project Number: [none]
Project Manager: Jess Alexander

Reported:
06/10/15 08:13

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 1506103 - EPA 3550A

Blank (1506103-BLK1)

Prepared & Analyzed: 06/09/15

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 12.3 " 12.2 101 30-150

LCS (1506103-BS1)

Prepared & Analyzed: 06/09/15

C10-C28 (DRO) 485 50 mg/kg 501 96.9 73-134

Surrogate: o-Terphenyl 12.7 " 12.2 104 30-150

Matrix Spike (1506103-MS1)

Source: 1506079-01

Prepared & Analyzed: 06/09/15

C10-C28 (DRO) 494 50 mg/kg 492 27.9 94.8 50-148

Surrogate: o-Terphenyl 12.3 " 12.0 103 30-150

Matrix Spike Dup (1506103-MSD1)

Source: 1506079-01

Prepared & Analyzed: 06/09/15

C10-C28 (DRO) 472 50 mg/kg 496 27.9 89.6 50-148 4.56 13

Surrogate: o-Terphenyl 12.3 " 12.1 102 30-150

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: South 6-21D
Project Number: [none]
Project Manager: Jess Alexander

Reported:
06/10/15 08:13

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 1506102 - EPA 5030 Soil MS

Blank (1506102-BLK1)

Prepared & Analyzed: 06/09/15

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	0.0374		"	0.0396		94.5	23-173			
Surrogate: Toluene-d8	0.0384		"	0.0400		96.1	20-170			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		96.9	21-167			

LCS (1506102-BS1)

Prepared & Analyzed: 06/09/15

Benzene	0.108	0.0020	mg/kg	0.100		108	58-130			
Toluene	0.0995	0.0050	"	0.100		99.5	61-134			
Ethylbenzene	0.104	0.0050	"	0.0992		104	74-139			
m,p-Xylene	0.215	0.010	"	0.200		108	73-137			
o-Xylene	0.106	0.0050	"	0.0984		108	73-141			
Surrogate: 1,2-Dichloroethane-d4	0.0377		"	0.0396		95.3	23-173			
Surrogate: Toluene-d8	0.0384		"	0.0400		96.1	20-170			
Surrogate: 4-Bromofluorobenzene	0.0382		"	0.0400		95.4	21-167			

Matrix Spike (1506102-MS1)

Source: 1506079-01

Prepared & Analyzed: 06/09/15

Benzene	0.109	0.0020	mg/kg	0.100	ND	109	30-131			
Toluene	0.100	0.0050	"	0.100	ND	100	30-134			
Ethylbenzene	0.104	0.0050	"	0.0992	ND	105	22-153			
m,p-Xylene	0.214	0.010	"	0.200	0.00609	104	10-159			
o-Xylene	0.106	0.0050	"	0.0984	ND	107	31-151			
Surrogate: 1,2-Dichloroethane-d4	0.0399		"	0.0396		101	23-173			
Surrogate: Toluene-d8	0.0385		"	0.0400		96.2	20-170			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.0	21-167			

Summit Scientific

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

Project: South 6-21D

Project Number: [none]
Project Manager: Jess Alexander

Reported:
06/10/15 08:13

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 1506102 - EPA 5030 Soil MS

Matrix Spike Dup (1506102-MSD1)		Source: 1506079-01			Prepared & Analyzed: 06/09/15					
Benzene	0.107	0.0020	mg/kg	0.100	ND	107	30-131	1.83	34	
Toluene	0.0986	0.0050	"	0.100	ND	98.6	30-134	1.60	30	
Ethylbenzene	0.102	0.0050	"	0.0992	ND	103	22-153	2.18	24	
m,p-Xylene	0.212	0.010	"	0.200	0.00609	103	10-159	1.20	68	
o-Xylene	0.105	0.0050	"	0.0984	ND	107	31-151	0.626	38	
Surrogate: 1,2-Dichloroethane-d4	0.0395		"	0.0396		99.7	23-173			
Surrogate: Toluene-d8	0.0385		"	0.0400		96.2	20-170			
Surrogate: 4-Bromofluorobenzene	0.0379		"	0.0400		94.7	21-167			

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: South 6-21D

Project Number: [none]
Project Manager: Jess Alexander

Reported:
06/10/15 08:13

Notes and Definitions

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

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.

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

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

June 19, 2015

Jess Alexander
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: South 6-21D

Enclosed are the results of analyses for samples received by Summit Scientific on 06/12/15 17:37. 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: South 6-21D

Project Number: [none]
Project Manager: Jess Alexander

Reported:
06/19/15 13:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS01@5'	1506123-01	Soil	06/12/15 16:00	06/12/15 17:37
FS02@5'	1506123-02	Soil	06/12/15 16:00	06/12/15 17:37

Summit Scientific

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

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: South 6-21D

Project Number: [none]
Project Manager: Jess Alexander

Reported:
06/19/15 13:19

Summit Scientific

S₂

1506123

741 Corporate Circle, Suite J&K ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933

Client: LTE Project Manager: Steve Kahn, Jess Alexander Page 1 of 1
Address: 4600 W 60th Avenue E-Mail: skahn@ltenv.com, jalexander@ltenv.com
City/State/Zip: Arvada, CO 80003
Phone: 303 433 9788 Fax: Project Name: South 6-21D
Sampler Name: B. Finn Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions
					HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	BTEX	GR	DR			
1	F501 @ 5'	06/12/15	1000	1			X			X			X	X	X			
2	F502 @ 5'	↓	↓	1			X			X			X	X	X			
3	F503 @ 5'	↓	↓	3			X		X				X	X	X			Put on hold
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Relinquished by: <u>B. Finn</u>	Date/Time: <u>06/12/2015 1737</u>	Received by: <u>Ramona Ferguson</u>	Date/Time: <u>6/12/15 1737</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input type="checkbox"/>	<input checked="" type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> 48 hours Standard <input checked="" type="checkbox"/> Sample Integrity: Temperature Upon Receipt: <u>9.5°C</u> Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

www.s2scientific.com

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: South 6-21D

Project Number: [none]
Project Manager: Jess Alexander

Reported:
06/19/15 13:19

Sample Receipt Checklist

S2 Work Order: 1506123

Client: LTE

Client Project ID: South 6-21D

Shipped Via: Hand delivered
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: _____

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

Cooler ID					
Temp (°C)	<u>9.5 c</u>				

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature just above 0°C to ≤ 6°C ⁽¹⁾ ?	<u>X</u>			
NOTE: If samples are delivered the same day of sampling, this requirement is waived provided that there is evidence that cooling has begun.				
Were all samples received intact ⁽¹⁾ ?	<u>X</u>			
Was adequate sample volume provided ⁽¹⁾ ?	<u>X</u>			
If custody seals are present, are they intact ⁽¹⁾ ?			<u>X</u>	
Are short holding time analytes or samples with HTs due within 48 hours present?			<u>X</u>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<u>X</u>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<u>X</u>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<u>X</u>			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<u>X</u>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.		<u>X</u>		
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?			<u>X</u>	
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, etc.				
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?			<u>X</u>	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?			<u>X</u>	
Additional Comments (if any):				

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

Melissa Sherman
Custodian Printed Name

[Signature]
Signature or Initials of Custodian

6-15-15
Date/Time



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

Project: South 6-21D

Project Number: [none]
Project Manager: Jess Alexander

Reported:
06/19/15 13:19

FS01@5'
1506123-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 06/12/15 16:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	220	50	mg/kg	1	1506184	06/15/15	06/17/15	8015M	

Date Sampled: 06/12/15 16:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		113 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 06/12/15 16:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1506180	06/15/15	06/18/15	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	51	0.50	"	"	"	"	"	"	

Date Sampled: 06/12/15 16:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	21-167		"	"	"	"	

Summit Scientific

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

Project: South 6-21D

Project Number: [none]
Project Manager: Jess Alexander

Reported:
06/19/15 13:19

FS02@5'
1506123-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 06/12/15 16:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1506184	06/15/15	06/17/15	8015M	

Date Sampled: 06/12/15 16:00

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: 06/12/15 16:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1506180	06/15/15	06/18/15	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 06/12/15 16:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

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4600 West 60th Avenue
Arvada CO, 80003

Project: South 6-21D
Project Number: [none]
Project Manager: Jess Alexander

Reported:
06/19/15 13:19

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 1506184 - EPA 3550A

Blank (1506184-BLK1)

Prepared: 06/15/15 Analyzed: 06/16/15

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 14.8 " 12.2 121 30-150

LCS (1506184-BS1)

Prepared: 06/15/15 Analyzed: 06/16/15

C10-C28 (DRO) 594 50 mg/kg 501 119 73-134

Surrogate: o-Terphenyl 14.2 " 12.2 116 30-150

Matrix Spike (1506184-MS1)

Source: 1506136-01

Prepared: 06/15/15 Analyzed: 06/16/15

C10-C28 (DRO) 440 50 mg/kg 477 18.1 88.5 50-148

Surrogate: o-Terphenyl 12.2 " 11.6 105 30-150

Matrix Spike Dup (1506184-MSD1)

Source: 1506136-01

Prepared: 06/15/15 Analyzed: 06/16/15

C10-C28 (DRO) 457 50 mg/kg 491 18.1 89.3 50-148 3.68 13

Surrogate: o-Terphenyl 12.4 " 12.0 104 30-150

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Project: South 6-21D
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Project Manager: Jess Alexander

Reported:
06/19/15 13:19

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 1506180 - EPA 5030 Soil MS

Blank (1506180-BLK1)

Prepared: 06/15/15 Analyzed: 06/16/15

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	0.0397	"	0.0396	100	23-173
Surrogate: Toluene-d8	0.0379	"	0.0400	94.8	20-170
Surrogate: 4-Bromofluorobenzene	0.0395	"	0.0400	98.8	21-167

LCS (1506180-BS1)

Prepared: 06/15/15 Analyzed: 06/16/15

Benzene	0.111	0.0020	mg/kg	0.100	111	58-130
Toluene	0.0996	0.0050	"	0.100	99.6	61-134
Ethylbenzene	0.104	0.0050	"	0.0992	105	74-139
m,p-Xylene	0.212	0.010	"	0.200	106	73-137
o-Xylene	0.108	0.0050	"	0.0984	109	73-141

Surrogate: 1,2-Dichloroethane-d4	0.0397	"	0.0396	100	23-173
Surrogate: Toluene-d8	0.0385	"	0.0400	96.3	20-170
Surrogate: 4-Bromofluorobenzene	0.0393	"	0.0400	98.2	21-167

Matrix Spike (1506180-MS1)

Source: 1506117-11

Prepared: 06/15/15 Analyzed: 06/16/15

Benzene	0.111	0.0020	mg/kg	0.0980	ND	113	30-131
Toluene	0.0991	0.0050	"	0.0980	ND	101	30-134
Ethylbenzene	0.104	0.0050	"	0.0973	ND	107	22-153
m,p-Xylene	0.212	0.010	"	0.196	ND	108	10-159
o-Xylene	0.108	0.0050	"	0.0965	ND	112	31-151

Surrogate: 1,2-Dichloroethane-d4	0.0409	"	0.0388	105	23-173
Surrogate: Toluene-d8	0.0381	"	0.0392	97.0	20-170
Surrogate: 4-Bromofluorobenzene	0.0378	"	0.0392	96.4	21-167

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

Project: South 6-21D
Project Number: [none]
Project Manager: Jess Alexander

Reported:
06/19/15 13:19

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 1506180 - EPA 5030 Soil MS

Matrix Spike Dup (1506180-MSD1)	Source: 1506117-11			Prepared: 06/15/15 Analyzed: 06/16/15						
Benzene	0.106	0.0020	mg/kg	0.0962	ND	110	30-131	4.44	34	
Toluene	0.0957	0.0050	"	0.0962	ND	99.5	30-134	3.47	30	
Ethylbenzene	0.102	0.0050	"	0.0954	ND	107	22-153	2.34	24	
m,p-Xylene	0.207	0.010	"	0.192	ND	108	10-159	2.35	68	
o-Xylene	0.106	0.0050	"	0.0946	ND	112	31-151	2.24	38	
Surrogate: 1,2-Dichloroethane-d4	0.0378		"	0.0381		99.3	23-173			
Surrogate: Toluene-d8	0.0371		"	0.0385		96.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0374		"	0.0385		97.4	21-167			

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

Project: South 6-21D

Project Number: [none]
Project Manager: Jess Alexander

Reported:
06/19/15 13:19

Notes and Definitions

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

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