

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

November 06, 2017

Bryan Paraspolo
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: HPD - Platteville

Enclosed are the results of analyses for samples received by Summit Scientific on 10/30/17 10:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Paul Shrewsbury For Ben Shrewsbury
Laboratory Manager



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

Project: HPD - Platteville
Project Number: 036217011
Project Manager: Bryan Paraspolo

Reported:
11/06/17 10:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HPD06	1710332-01	Soil	10/30/17 09:00	10/30/17 10:45
HPD07	1710332-02	Soil	10/30/17 09:10	10/30/17 10:45
HPD08	1710332-03	Soil	10/30/17 09:20	10/30/17 10:45
HPD09	1710332-04	Soil	10/30/17 09:30	10/30/17 10:45

Summit Scientific

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Summit Scientific

S₂

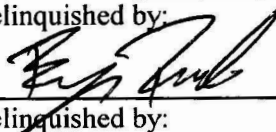

1710332

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

Page 1 of 1

Client: LT ENVIRONMENTAL Project Manager: BRIAN PARASPOLO
Address: 4600 W 60th AVE E-Mail: BPARASPOLO@LTENV.COM
City/State/Zip: ARVADA CO 80003
Phone: 303 433 9788 Fax: Project Name: HPD- PLATVILL SR
Sampler Name: B. PARASPOLO Project Number: 036217011

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO3	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	BTEX	TPH							
1	HPD06	10/30/17	900	2			X			X				X	X						
2	HPD07	↓	910	2			X			X				X	X						
3	HPD08	↓	920	2			X			X				X	X						
4	HPD09	↓	930	2			X			X				X	X						
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: 	Date/Time: 10/30/17 1045	Received by: 	Date/Time: 10/30/17 1045	Turn Around Time (Check) Same Day _____ 72 hours _____ 24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: <u>3.6</u>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Temperature Upon Receipt: <u>3.6</u> Intact: Yes No	

1710332

Sample Receipt Checklist

S2 Work Order: _____

Client: LT Client Project ID: HPD - Platteville SAShipped Via: _____ Airbill #: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)Matrix (check all that apply): Air ✓ Soil/Solid Water Other: _____
(Describe)

Cooler ID					
Temp (°C)	<u>3.8</u>				

Thermometer ID: 61857155-K

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

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

MC
Custodian Printed NameMC
Signature or Initials of Custodian10/30/17
Date/Time



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Project: HPD - Platteville
Project Number: 036217011
Project Manager: Bryan Paraspolo

Reported:
11/06/17 10:19

HPD06
1710332-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/30/17 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1710335	10/31/17	11/01/17	8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/30/17 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		94.6 %	70-130		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/30/17 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1710336	10/31/17	11/01/17	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/30/17 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		86.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.6 %	21-167		"	"	"	"	

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Project: HPD - Platteville
Project Number: 036217011
Project Manager: Bryan Paraspolo

Reported:
11/06/17 10:19

HPD07
1710332-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/30/17 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1710335	10/31/17	11/01/17	8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/30/17 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		91.5 %	70-130		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/30/17 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1710336	10/31/17	11/01/17	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/30/17 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		89.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.4 %	21-167		"	"	"	"	

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Project: HPD - Platteville
Project Number: 036217011
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Reported:
11/06/17 10:19

HPD08
1710332-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/30/17 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	450	50	mg/kg	1	1710335	10/31/17	11/01/17	8015M	
C28-C36 (ORO)	61	50	"	"	"	"	"	"	

Date Sampled: **10/30/17 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		119 %	70-130		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/30/17 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1710336	10/31/17	11/01/17	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	3.2	0.50	"	"	"	"	"	"	

Date Sampled: **10/30/17 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		86.1 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.7 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.5 %	21-167		"	"	"	"	

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Project: HPD - Platteville
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Reported:
11/06/17 10:19

HPD09
1710332-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/30/17 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1710335	10/31/17	11/01/17	8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/30/17 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		93.2 %	70-130		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/30/17 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1710336	10/31/17	11/01/17	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/30/17 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		87.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.3 %	21-167		"	"	"	"	

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11/06/17 10:19

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 1710335 - EPA 3550A

Blank (1710335-BLK1)

Prepared & Analyzed: 10/31/17

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	13.1		"	12.5		105	70-130			

LCS (1710335-BS1)

Prepared & Analyzed: 10/31/17

C10-C28 (DRO)	549	50	mg/kg	499		110	50-150			
C28-C36 (ORO)	11.0	50	"				50-150			
Surrogate: o-Terphenyl	13.8		"	12.5		110	70-130			

Matrix Spike (1710335-MS1)

Source: 1710312-01

Prepared: 10/31/17 Analyzed: 11/01/17

C10-C28 (DRO)	570	50	mg/kg	499	186	76.9	50-150			
C28-C36 (ORO)	23.1	50	"		27.0		50-150			
Surrogate: o-Terphenyl	14.8		"	12.5		119	70-130			

Matrix Spike Dup (1710335-MSD1)

Source: 1710312-01

Prepared: 10/31/17 Analyzed: 11/01/17

C10-C28 (DRO)	508	50	mg/kg	499	186	64.5	50-150	11.5	20	
C28-C36 (ORO)	13.9	50	"		27.0		50-150	49.6	20	
Surrogate: o-Terphenyl	12.9		"	12.5		103	70-130			

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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 1710336 - EPA 5030 Soil MS

Blank (1710336-BLK1)

Prepared: 10/31/17 Analyzed: 11/01/17

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	0.0380		"	0.0400		95.0	23-173			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	21-167			

LCS (1710336-BS1)

Prepared: 10/31/17 Analyzed: 11/01/17

Benzene	0.0638	0.0020	mg/kg	0.100		63.8	58-130			
Toluene	0.0788	0.0050	"	0.100		78.8	61-134			
Ethylbenzene	0.0933	0.0050	"	0.0992		94.1	74-139			
m,p-Xylene	0.187	0.010	"	0.200		93.6	73-137			
o-Xylene	0.0906	0.0050	"	0.0980		92.4	73-141			
Xylenes (total)	0.277	0.0050	"				30-150			
Gasoline Range Hydrocarbons	1.85	0.50	"				30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0344		"	0.0400		86.1	23-173			
Surrogate: Toluene-d8	0.0384		"	0.0400		95.9	20-170			
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0400		94.1	21-167			

Matrix Spike (1710336-MS1)

Source: 1710322-02

Prepared: 10/31/17 Analyzed: 11/01/17

Benzene	0.0653	0.0020	mg/kg	0.100	ND	65.3	30-131			
Toluene	0.0778	0.0050	"	0.100	ND	77.8	30-134			
Ethylbenzene	0.0913	0.0050	"	0.0992	ND	92.0	22-153			
m,p-Xylene	0.186	0.010	"	0.200	ND	93.3	10-159			
o-Xylene	0.0931	0.0050	"	0.0980	ND	95.0	31-151			
Xylenes (total)	0.279	0.0050	"		ND		30-150			
Gasoline Range Hydrocarbons	1.80	0.50	"		ND		30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0362		"	0.0400		90.6	23-173			
Surrogate: Toluene-d8	0.0392		"	0.0400		98.0	20-170			
Surrogate: 4-Bromofluorobenzene	0.0387		"	0.0400		96.8	21-167			

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Project: HPD - Platteville
Project Number: 036217011
Project Manager: Bryan Paraspolo

Reported:
11/06/17 10:19

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 1710336 - EPA 5030 Soil MS

Matrix Spike Dup (1710336-MSD1)		Source: 1710322-02			Prepared: 10/31/17 Analyzed: 11/01/17					
Benzene	0.0632	0.0020	mg/kg	0.100	ND	63.2	30-131	3.27	34	
Toluene	0.0783	0.0050	"	0.100	ND	78.3	30-134	0.615	30	
Ethylbenzene	0.0912	0.0050	"	0.0992	ND	91.9	22-153	0.0658	24	
m,p-Xylene	0.183	0.010	"	0.200	ND	91.8	10-159	1.67	68	
o-Xylene	0.0913	0.0050	"	0.0980	ND	93.2	31-151	1.95	38	
Xylenes (total)	0.274	0.0050	"		ND		30-150	1.77	20	
Gasoline Range Hydrocarbons	1.81	0.50	"		ND		30-150	0.731	20	
Surrogate: 1,2-Dichloroethane-d4	0.0356		"	0.0400		89.1	23-173			
Surrogate: Toluene-d8	0.0382		"	0.0400		95.5	20-170			
Surrogate: 4-Bromofluorobenzene	0.0382		"	0.0400		95.6	21-167			

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Project: HPD - Platteville

Project Number: 036217011

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Reported:
11/06/17 10:19

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