



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: LAMBDA ENERGY RESOURCES, LLC
Name:
ClientProj: 2018100124.01
GTA ProjNo: 121118-4

Site Addr: COLDSPRINGS 29A

Sampled By: MARK STOVER/GCES
Date Rec: 12/11/2018
Time Rec: 2:08 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-3	12/10/2018		WATER
2	MW-14A	12/10/2018		WATER
3	MW-14B	12/10/2018		WATER
4	MW-16C	12/10/2018		WATER
5	MW-17-70	12/10/2018		WATER
6	MW-19-55	12/10/2018		WATER
7	MW-15D	12/10/2018		WATER
8	MW-20-55	12/11/2018		WATER
9	MW-20-69	12/11/2018		WATER
10	MW-19-35	12/11/2018		WATER
11	MW-17-83	12/11/2018		WATER
12	EW-5	12/11/2018		WATER
13	EW-2	12/11/2018		WATER

ELECTRONIC SIGNATURE REPORT. This is a final report for the following pages of data for the samples specified above. All analysis was performed by the methods stated and all quality control measures required were completed. All quality control information is available upon request.

Kirk Chase

Kirk L. Chase/Chemist
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100124.01
 LOCATION: COLDSPRINGS 29A
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-3

GTA PROJECT NO: 121118-4
 GTA SAMPLE NO: 1
 DATE SAMPLED: 12/10/2018
 TIME SAMPLED:
 DATE RECEIVED: 12/11/2018
 TIME RECEIVED: 2:08 PM

SAMPLED BY: MARK STOVER/GCES

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		12/13/2018	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
 ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION



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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100124.01
 LOCATION: COLDSPRINGS 29A
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-14A

GTA PROJECT NO: 121118-4
 GTA SAMPLE NO: 2
 DATE SAMPLED: 12/10/2018
 TIME SAMPLED:
 DATE RECEIVED: 12/11/2018
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EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		12/13/2018	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100124.01
LOCATION: COLDSPRINGS 29A
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-16C

GTA PROJECT NO: 121118-4
GTA SAMPLE NO: 4
DATE SAMPLED: 12/10/2018
TIME SAMPLED:
DATE RECEIVED: 12/11/2018
TIME RECEIVED: 2:08 PM

SAMPLED BY: MARK STOVER/GCES

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		12/13/2018	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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 PROJECT NO: 2018100124.01
 LOCATION: COLDSPRINGS 29A
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-17-70

GTA PROJECT NO: 121118-4
 GTA SAMPLE NO: 5
 DATE SAMPLED: 12/10/2018
 TIME SAMPLED:
 DATE RECEIVED: 12/11/2018
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EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	55	1.0	ug/L (PPB)	MR		12/13/2018	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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 PROJECT NO: 2018100124.01
 LOCATION: COLDSPRINGS 29A
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-19-55

GTA PROJECT NO: 121118-4
 GTA SAMPLE NO: 6
 DATE SAMPLED: 12/10/2018
 TIME SAMPLED:
 DATE RECEIVED: 12/11/2018
 TIME RECEIVED: 2:08 PM

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EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		12/13/2018	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100124.01
 LOCATION: COLDSPRINGS 29A
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-15D

GTA PROJECT NO: 121118-4
 GTA SAMPLE NO: 7
 DATE SAMPLED: 12/10/2018
 TIME SAMPLED:
 DATE RECEIVED: 12/11/2018
 TIME RECEIVED: 2:08 PM

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EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		12/13/2018	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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 PROJECT NO: 2018100124.01
 LOCATION: COLDSPRINGS 29A
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-20-55

GTA PROJECT NO: 121118-4
 GTA SAMPLE NO: 8
 DATE SAMPLED: 12/11/2018
 TIME SAMPLED:
 DATE RECEIVED: 12/11/2018
 TIME RECEIVED: 2:08 PM

SAMPLED BY: MARK STOVER/GCES

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		12/13/2018	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100124.01
 LOCATION: COLDSPRINGS 29A
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-20-69

GTA PROJECT NO: 121118-4
 GTA SAMPLE NO: 9
 DATE SAMPLED: 12/11/2018
 TIME SAMPLED:
 DATE RECEIVED: 12/11/2018
 TIME RECEIVED: 2:08 PM

SAMPLED BY: MARK STOVER/GCES

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		12/13/2018	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100124.01
LOCATION: COLDSPRINGS 29A
MI
SAMPLE MATRIX: WATER
SAMPLE ID: EW-5

GTA PROJECT NO: 121118-4
GTA SAMPLE NO: 12
DATE SAMPLED: 12/11/2018
TIME SAMPLED:
DATE RECEIVED: 12/11/2018
TIME RECEIVED: 2:08 PM

SAMPLED BY: MARK STOVER/GCES

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	8.5	5.0	ug/L (PPB)	MR		12/13/2018	EPA 5030B
Toluene	207	5.0					
Ethylbenzene	54	5.0					
Xylene(Total)	394	15					
1,2,4-Trimethylbenzene	20	5.0					
1,3,5-Trimethylbenzene	9.2	5.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100124.01
 LOCATION: COLDSPRINGS 29A
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: EW-2

GTA PROJECT NO: 121118-4
 GTA SAMPLE NO: 13
 DATE SAMPLED: 12/11/2018
 TIME SAMPLED:
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SAMPLED BY: MARK STOVER/GCES

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	14	5.0	ug/L (PPB)	MR		12/13/2018	EPA 5030B
Toluene	559	100					
Ethylbenzene	138	5.0					
Xylene(Total)	2,370	300					
1,2,4-Trimethylbenzene	552	100					
1,3,5-Trimethylbenzene	223	5.0					
Naphthalene	5.5	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100124.01
 LOCATION: COLDSPRINGS 29A

GTA PROJECT NO: 121118-4
 GTA SAMPLE NO: 2
 DATE SAMPLED: 12/10/2018
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 DATE RECEIVED: 12/11/2018
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MI
 SAMPLED BY: MARK STOVER/GCES

INORGANICS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
	SAMPLE ID: MW-14A CHLORIDE EPA 300.0	5.2	2.5	mg/L (PPM)	LV	12/15/2018	WATER

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100124.01
 LOCATION: COLDSPRINGS 29A

GTA PROJECT NO: 121118-4
 GTA SAMPLE NO: 4
 DATE SAMPLED: 12/10/2018
 TIME SAMPLED:
 DATE RECEIVED: 12/11/2018
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MI
 SAMPLED BY: MARK STOVER/GCES

INORGANICS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
	SAMPLE ID: MW-16C CHLORIDE EPA 300.0	ND	2.5	mg/L (PPM)	LV	12/15/2018	WATER

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100124.01
 LOCATION: COLDSPRINGS 29A

GTA PROJECT NO: 121118-4
 GTA SAMPLE NO: 7
 DATE SAMPLED: 12/10/2018
 TIME SAMPLED:
 DATE RECEIVED: 12/11/2018
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MI
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<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
	SAMPLE ID: MW-15D CHLORIDE EPA 300.0	38.6	2.5	mg/L (PPM)	LV	12/18/2018	WATER

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100124.01
 LOCATION: COLDSPRINGS 29A

GTA PROJECT NO: 121118-4
 GTA SAMPLE NO: 13
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INORGANICS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u>	<u>Sample</u>
	SAMPLE ID: EW-2 CHLORIDE EPA 300.0	ND	2.5	mg/L (PPM)	LV	12/18/2018	WATER

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

