



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: 2018100165.01
GTA ProjNo: 090718-15

Site Addr: RAPID RIVER 24

Sampled By: E. VINCKE/GCES
Date Rec: 9/7/2018
Time Rec: 2:20 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-12	9/7/2018		WATER
2	MW-11	9/7/2018	9:48 AM	WATER
3	MW-10	9/7/2018	11:02 AM	WATER
4	MW-9	9/7/2018		WATER
5	MW-9 (10')	9/7/2018		SOIL

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
Grand Traverse Analytical
830 Robinwood Court
Traverse City, MI 49686
Ph: 231-929-0905
Fx: 231-929-0894
SP: 231-590-0291
kirk@gtanalytical.com



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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 2018100165.01

LOCATION: RAPID RIVER 24

MI

SAMPLE MATRIX: WATER

SAMPLE ID: MW-12

GTA PROJECT NO: 090718-15

GTA SAMPLE NO: 1

DATE SAMPLED: 9/7/2018

TIME SAMPLED:

DATE RECEIVED: 9/7/2018

TIME RECEIVED: 2:20 PM

SAMPLED BY: E. VINCKE/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		9/11/2018	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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: 2018100165.01
 LOCATION: RAPID RIVER 24
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-11

GTA PROJECT NO: 090718-15
 GTA SAMPLE NO: 2
 DATE SAMPLED: 9/7/2018
 TIME SAMPLED: 9:48 AM
 DATE RECEIVED: 9/7/2018
 TIME RECEIVED: 2:20 PM

SAMPLED BY: E. VINCKE/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		9/11/2018	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
 ND = NOT DETECTED, RESULT < LOD
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100165.01
 LOCATION: RAPID RIVER 24
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-10

GTA PROJECT NO: 090718-15
 GTA SAMPLE NO: 3
 DATE SAMPLED: 9/7/2018
 TIME SAMPLED: 11:02 AM
 DATE RECEIVED: 9/7/2018
 TIME RECEIVED: 2:20 PM

SAMPLED BY: E. VINCKE/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		9/11/2018	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100165.01
 LOCATION: RAPID RIVER 24
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-9

GTA PROJECT NO: 090718-15
 GTA SAMPLE NO: 4
 DATE SAMPLED: 9/7/2018
 TIME SAMPLED:
 DATE RECEIVED: 9/7/2018
 TIME RECEIVED: 2:20 PM

SAMPLED BY: E. VINCKE/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		9/11/2018	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100165.01
LOCATION: RAPID RIVER 24
MI
SAMPLE MATRIX: SOIL
SAMPLE ID: MW-9 (10')

GTA PROJECT NO: 090718-15
GTA SAMPLE NO: 5
DATE SAMPLED: 9/7/2018
TIME SAMPLED:
DATE RECEIVED: 9/7/2018
TIME RECEIVED: 2:20 PM
SAMPLED BY: E. VINCKE/GCES
**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	9/4/2018	9/10/2018	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	160	150					
1,2,4-Trimethylbenzene	327	50					
1,3,5-Trimethylbenzene	179	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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COMPANY: LAMBDA ENERGY RESOURCES, LLC GTA PROJECT NO: 090718-15
PROJECT NO: 2018100165.01 GTA SAMPLE NO: 1
LOCATION: RAPID RIVER 24 DATE SAMPLED: 9/7/2018
TIME SAMPLED:
DATE RECEIVED: 9/7/2018
TIME RECEIVED: 2:20 PM
MI
SAMPLED BY: E. VINCKE/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-12						
	CHLORIDE EPA 300.0	ND	2.5	mg/L (PPM)	LV	9/15/2018	WATER

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



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COMPANY: LAMBDA ENERGY RESOURCES, LLC

NAME:
PROJECT NO: 2018100165.01

LOCATION: RAPID RIVER 24

MI

GTA PROJECT NO: 090718-
SAMPLED BY: E. VINCKE/GCES

DATE SAMPLED: 9/7/2018
TIME SAMPLED:

SAMPLE MATRIX: SOIL

DATE RECEIVED: 9/7/2018
TIME RECEIVED: 2:20 PM

MOISTURE

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
	SAMPLE ID: MW-9 (10') % MOISTURE EPA 3550C	4.0	0.050	% OF SAMPLE	AS	9/7/2018

