

**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: 2018100125

GTA ProjNo: 090523-2

Site Addr: PARADISE 19

Sampled By: BRENDAN RUPPEN/GCES

Date Rec: 9/5/2023

Time Rec: 1:54 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-3	9/5/2023	11:00 AM	WATER
2	MW-3D	9/5/2023	11:20 AM	WATER
3	MW-16	9/5/2023	11:45 AM	WATER
4	MW-18	9/5/2023	12:05 PM	WATER
5	MW-17	9/5/2023	12:30 PM	WATER
6	MW-14	9/5/2023	1:00 PM	WATER
7	MW-13	9/5/2023	1:20 PM	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
Grand Traverse Analytical
830 Robinwood Court
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100125
LOCATION: PARADISE 19
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-3

GTA PROJECT NO: 090523-2
GTA SAMPLE NO: 1
DATE SAMPLED: 9/5/2023
TIME SAMPLED: 11:00 AM
DATE RECEIVED: 9/5/2023
TIME RECEIVED: 1:54 PM
SAMPLED BY: BRENDAN RUPPEN/GCES

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>Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		9/6/2023	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: 2018100125
LOCATION: PARADISE 19
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-3D

GTA PROJECT NO: 090523-2
GTA SAMPLE NO: 2
DATE SAMPLED: 9/5/2023
TIME SAMPLED: 11:20 AM
DATE RECEIVED: 9/5/2023
TIME RECEIVED: 1:54 PM
SAMPLED BY: BRENDAN RUPPEN/GCES

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>Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		9/6/2023	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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LOD = LIMIT OF DETECTION

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100125
LOCATION: PARADISE 19
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-16

GTA PROJECT NO: 090523-2
GTA SAMPLE NO: 3
DATE SAMPLED: 9/5/2023
TIME SAMPLED: 11:45 AM
DATE RECEIVED: 9/5/2023
TIME RECEIVED: 1:54 PM
SAMPLED BY: BRENDAN RUPPEN/GCES

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>Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		9/6/2023	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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LOD = LIMIT OF DETECTION

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100125
LOCATION: PARADISE 19
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-18
GTA PROJECT NO: 090523-2
GTA SAMPLE NO: 4
DATE SAMPLED: 9/5/2023
TIME SAMPLED: 12:05 PM
DATE RECEIVED: 9/5/2023
TIME RECEIVED: 1:54 PM
SAMPLED BY: BRENDAN RUPPEN/GCES

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>Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		9/6/2023	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	GTA PROJECT NO:	090523-2
PROJECT NO:	2018100125	GTA SAMPLE NO:	5
LOCATION:	PARADISE 19	DATE SAMPLED:	9/5/2023
		TIME SAMPLED:	12:30 PM
		DATE RECEIVED:	9/5/2023
	MI	TIME RECEIVED:	1:54 PM
SAMPLE MATRIX:	WATER		
SAMPLE ID:	MW-17	SAMPLED BY:	BRENDAN RUPPEN/GCES

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>Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		9/6/2023	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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LOD = LIMIT OF DETECTION

COMPANY:	LAMBDA ENERGY RESOURCES, LLC	GTA PROJECT NO:	090523-2
PROJECT NO:	2018100125	GTA SAMPLE NO:	6
LOCATION:	PARADISE 19	DATE SAMPLED:	9/5/2023
		TIME SAMPLED:	1:00 PM
	MI	DATE RECEIVED:	9/5/2023
		TIME RECEIVED:	1:54 PM
SAMPLE MATRIX:	WATER		
SAMPLE ID:	MW-14	SAMPLED BY:	BRENDAN RUPPEN/GCES

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>Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		9/6/2023	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

COMPANY:	LAMBDA ENERGY RESOURCES, LLC	GTA PROJECT NO:	090523-2
PROJECT NO:	2018100125	GTA SAMPLE NO:	7
LOCATION:	PARADISE 19	DATE SAMPLED:	9/5/2023
		TIME SAMPLED:	1:20 PM
	MI	DATE RECEIVED:	9/5/2023
		TIME RECEIVED:	1:54 PM
SAMPLE MATRIX:	WATER		
SAMPLE ID:	MW-13	SAMPLED BY:	BRENDAN RUPPEN/GCES

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>Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		9/6/2023	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: 2018100125
LOCATION: PARADISE 19
MI
SAMPLED BY: BRENDAN RUPPEN/GCES

GTA PROJECT NO: 090523-2
GTA SAMPLE NO: 4
DATE SAMPLED: 9/5/2023
TIME SAMPLED: 12:05 PM
DATE RECEIVED: 9/5/2023
TIME RECEIVED: 1:54 PM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
SAMPLE ID: MW-18							
CHLORIDE EPA 300.0		ND	10	mg/L (PPM)	KC/TR	9/12/2023	WATER

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 090523-2

PROJECT NO: 2018100125

GTA SAMPLE NO: 5

LOCATION: PARADISE 19

DATE SAMPLED: 9/5/2023

TIME SAMPLED: 12:30 PM

DATE RECEIVED: 9/5/2023

TIME RECEIVED: 1:54 PM

MI

SAMPLED BY: BRENDAN RUPPEN/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-17

CHLORIDE EPA 300.0

Concentration

230

LOD

10

Units

mg/L (PPM)

Analyst

KC/TR

Date Completed

9/12/2023

Sample Matrix

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

s.u. = STANDARD pH UNITS REPORTED AT 25 C

CHAIN OF CUSTODY

PROJECT NUMBER 2018100125	SITE NAME/ADDRESS Paradise 19	COMPANY/NAME Lambda Energy
SAMPLED BY Brendon Ruyten	COMPANY GCES	GTA PROJECT # 090523-2

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	MW-3	9/5/23	11:00	GW	BTEX+4
2	MW-3D		11:20		
3	MW-16		11:45		
4	MW-18		12:05		BTEX+4, Chloride
5	MW-17		12:30		BTEX+4, Chloride
6	MW-14		1:00		BTEX+4
7	MW-13		1:20		

BILL TO: LER	TempRec: ☐ 4.00°C On Ice? ☒ Y ☐ N	REPORT TO: E. Vincke
RELEASED BY B. Ruyten	DATE/TIME 9/5/23 1:54	RECEIVED BY [Signature]
		DATE/TIME 9/5/23 1:54
REQUESTED TAT ☒ STANDARD ☐ 1 BUSINESS DAY ☐ 2 BUSINESS DAYS ☐ 3 BUSINESS DAYS		