

**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: 2018100106.01

GTA ProjNo: 092222-14

Site Addr: HAYES 22

Sampled By: BRENDAN RUPPEN/GCES

Date Rec: 9/22/2022

Time Rec: 3:30 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	RW-202	9/22/2022	11:05 AM	WATER
2	MW-133	9/22/2022	11:25 AM	WATER
3	MW-134	9/22/2022	11:40 AM	WATER
4	MW-135	9/22/2022	12:00 PM	WATER
6	MW-101	9/22/2022	1:05 PM	WATER
7	MW-100S	9/22/2022	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
Traverse City, MI 49686
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100106.01
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: RW-202

GTA PROJECT NO: 092222-14
GTA SAMPLE NO: 1
DATE SAMPLED: 9/22/2022
TIME SAMPLED: 11:05 AM
DATE RECEIVED: 9/22/2022
TIME RECEIVED: 3:30 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 Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		9/26/2022	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: 2018100106.01
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-133

GTA PROJECT NO: 092222-14
GTA SAMPLE NO: 2
DATE SAMPLED: 9/22/2022
TIME SAMPLED: 11:25 AM
DATE RECEIVED: 9/22/2022
TIME RECEIVED: 3:30 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 Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		9/26/2022	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.
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100106.01
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-134

GTA PROJECT NO: 092222-14
GTA SAMPLE NO: 3
DATE SAMPLED: 9/22/2022
TIME SAMPLED: 11:40 AM
DATE RECEIVED: 9/22/2022
TIME RECEIVED: 3:30 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 Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		9/26/2022	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.
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100106.01
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-135

GTA PROJECT NO: 092222-14
GTA SAMPLE NO: 4
DATE SAMPLED: 9/22/2022
TIME SAMPLED: 12:00 PM
DATE RECEIVED: 9/22/2022
TIME RECEIVED: 3:30 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 Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		9/26/2022	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.
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100106.01
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-101

GTA PROJECT NO: 092222-14
GTA SAMPLE NO: 6
DATE SAMPLED: 9/22/2022
TIME SAMPLED: 1:05 PM
DATE RECEIVED: 9/22/2022
TIME RECEIVED: 3:30 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 Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		9/26/2022	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
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100106.01
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-100S

GTA PROJECT NO: 092222-14
GTA SAMPLE NO: 7
DATE SAMPLED: 9/22/2022
TIME SAMPLED: 1:20 PM
DATE RECEIVED: 9/22/2022
TIME RECEIVED: 3:30 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 Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	2.9	1.0	ug/L (PPB)	MR		9/26/2022	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
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100106.01
LOCATION: HAYES 22
MI
SAMPLED BY: BRENDAN RUPPEN/GCES

GTA PROJECT NO: 092222-14
GTA SAMPLE NO: 1
DATE SAMPLED: 9/22/2022
TIME SAMPLED: 11:05 AM
DATE RECEIVED: 9/22/2022
TIME RECEIVED: 3:30 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: RW-202							
CHLORIDE EPA 300.0		ND	10	mg/L (PPM)	KC/TR	9/27/2022	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: 092222-14

PROJECT NO: 2018100106.01

GTA SAMPLE NO: 2

LOCATION: HAYES 22

DATE SAMPLED: 9/22/2022

TIME SAMPLED: 11:25 AM

DATE RECEIVED: 9/22/2022

TIME RECEIVED: 3:30 PM

MI

SAMPLED BY: BRENDAN RUPPEN/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-133

CHLORIDE EPA 300.0

Concentration

LOD

Units

Analyst

Date Completed

Sample Matrix

ND

10

mg/L (PPM)

KC/TR

9/27/2022

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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



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PROJECT NO: 2018100106.01
LOCATION: HAYES 22
MI
SAMPLED BY: BRENDAN RUPPEN/GCES

GTA PROJECT NO: 092222-14
GTA SAMPLE NO: 3
DATE SAMPLED: 9/22/2022
TIME SAMPLED: 11:40 AM
DATE RECEIVED: 9/22/2022
TIME RECEIVED: 3:30 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-134							
CHLORIDE EPA 300.0		ND	10	mg/L (PPM)	KC/TR	9/27/2022	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: 2018100106.01
LOCATION: HAYES 22
MI
SAMPLED BY: BRENDAN RUPPEN/GCES

GTA PROJECT NO: 092222-14
GTA SAMPLE NO: 4
DATE SAMPLED: 9/22/2022
TIME SAMPLED: 12:00 PM
DATE RECEIVED: 9/22/2022
TIME RECEIVED: 3:30 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-135 CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	KC/TR	9/27/2022	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: 2018100106.01
LOCATION: HAYES 22
MI
SAMPLED BY: BRENDAN RUPPEN/GCES

GTA PROJECT NO: 092222-14
GTA SAMPLE NO: 6
DATE SAMPLED: 9/22/2022
TIME SAMPLED: 1:05 PM
DATE RECEIVED: 9/22/2022
TIME RECEIVED: 3:30 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-101							
CHLORIDE EPA 300.0		ND	10	mg/L (PPM)	KC/TR	9/27/2022	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

PROJECT NO: 2018100106.01

LOCATION: HAYES 22

GTA PROJECT NO: 092222-14

GTA SAMPLE NO: 7

DATE SAMPLED: 9/22/2022

TIME SAMPLED: 1:20 PM

DATE RECEIVED: 9/22/2022

TIME RECEIVED: 3:30 PM

SAMPLED BY: MI
BRENDAN RUPPEN/GCES**SAMPLE ANALYSIS****No: Analysis**

SAMPLE ID: MW-100S

CHLORIDE EPA 300.0

<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
43	10	mg/L (PPM)	KC/TR	9/27/2022	WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

245
3197

INDEPENDENT TESTING LAB

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PH: 231-929-0905

FAX: 231-929-0894

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CHAIN OF CUSTODY

PROJECT NUMBER 2018100106	SITE NAME/ADDRESS Hayes 22	COMPANY/NAME LER
SAMPLED BY GCES - Brendan Ruppen	COMPANY GCES	GTA PROJECT # 092222-14

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	RW-202	9/22/22	11:05	GW	BTEX, Chloride
2	MW-133	↓	11:25	↓	↓
3	MW-134	↓	11:40	↓	↓
4	MW-135	↓	12:00	↓	↓
5	MW-136 *	↓	12:20	↓	↓
6	MW-101	↓	1:05	↓	↓
7	MW-100s	↓	1:20	↓	↓

BILL TO: LER	TempRec: ☐ 1.6°C	On Ice? ☒ ☐	REPORT TO: J. Simso
RELEASED BY B. Ruppen	DATE/TIME 9/22/22 3:30	RECEIVED BY R. Ch	DATE/TIME 9/22/22 3:30p
REQUESTED TAT ☒ STANDARD ☐ 1 BUSINESS DAY ☐ 2 BUSINESS DAYS ☐ 3 BUSINESS DAYS			