

**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

GTA ProjNo: 052523-17

Site Addr: HAYES 22

Sampled By: BRENDAN RUPPEN/GCES

Date Rec: 5/25/2023

Time Rec: 3:44 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	RW-202	5/25/2023	11:07 AM	WATER
2	MW-133	5/25/2023	11:20 AM	WATER
3	MW-134	5/25/2023	11:30 AM	WATER
4	MW-135	5/25/2023	11:45 AM	WATER
5	MW-136	5/25/2023	11:55 AM	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
Ph: 231-929-0905
Fx: 231-929-0894
SP: 231-590-0291
kirk@gtanalytical.com



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
PROJECT NO: 2018100106
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: RW-202

GTA PROJECT NO: 052523-17
GTA SAMPLE NO: 1
DATE SAMPLED: 5/25/2023
TIME SAMPLED: 11:07 AM
DATE RECEIVED: 5/25/2023
TIME RECEIVED: 3:44 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		5/27/2023	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

**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
PROJECT NO: 2018100106
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-133

GTA PROJECT NO: 052523-17
GTA SAMPLE NO: 2
DATE SAMPLED: 5/25/2023
TIME SAMPLED: 11:20 AM
DATE RECEIVED: 5/25/2023
TIME RECEIVED: 3:44 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		5/27/2023	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

**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
PROJECT NO: 2018100106
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-134

GTA PROJECT NO: 052523-17
GTA SAMPLE NO: 3
DATE SAMPLED: 5/25/2023
TIME SAMPLED: 11:30 AM
DATE RECEIVED: 5/25/2023
TIME RECEIVED: 3:44 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		5/27/2023	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

**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
PROJECT NO: 2018100106
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-135

GTA PROJECT NO: 052523-17
GTA SAMPLE NO: 4
DATE SAMPLED: 5/25/2023
TIME SAMPLED: 11:45 AM
DATE RECEIVED: 5/25/2023
TIME RECEIVED: 3:44 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		5/27/2023	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

**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
PROJECT NO: 2018100106
LOCATION: HAYES 22
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-136

GTA PROJECT NO: 052523-17
GTA SAMPLE NO: 5
DATE SAMPLED: 5/25/2023
TIME SAMPLED: 11:55 AM
DATE RECEIVED: 5/25/2023
TIME RECEIVED: 3:44 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		5/27/2023	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

**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
PROJECT NO: 2018100106
LOCATION: HAYES 22
MI
SAMPLED BY: BRENDAN RUPPEN/GCES

GTA PROJECT NO: 052523-17
GTA SAMPLE NO: 1
DATE SAMPLED: 5/25/2023
TIME SAMPLED: 11:07 AM
DATE RECEIVED: 5/25/2023
TIME RECEIVED: 3:44 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	5/31/2023	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: 052523-17

PROJECT NO: 2018100106

GTA SAMPLE NO: 2

LOCATION: HAYES 22

DATE SAMPLED: 5/25/2023

TIME SAMPLED: 11:20 AM

DATE RECEIVED: 5/25/2023

TIME RECEIVED: 3:44 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

5/31/2023

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100106
LOCATION: HAYES 22
MI
SAMPLED BY: BRENDAN RUPPEN/GCES

GTA PROJECT NO: 052523-17
GTA SAMPLE NO: 3
DATE SAMPLED: 5/25/2023
TIME SAMPLED: 11:30 AM
DATE RECEIVED: 5/25/2023
TIME RECEIVED: 3:44 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	14	10	mg/L (PPM)	KC/TR	5/31/2023	WATER

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

**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
PROJECT NO: 2018100106
LOCATION: HAYES 22
MI
SAMPLED BY: BRENDAN RUPPEN/GCES

GTA PROJECT NO: 052523-17
GTA SAMPLE NO: 4
DATE SAMPLED: 5/25/2023
TIME SAMPLED: 11:45 AM
DATE RECEIVED: 5/25/2023
TIME RECEIVED: 3:44 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		15	10	mg/L (PPM)	KC/TR	5/31/2023	WATER

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 2018100106

LOCATION: HAYES 22

GTA PROJECT NO: 052523-17

GTA SAMPLE NO: 5

DATE SAMPLED: 5/25/2023

TIME SAMPLED: 11:55 AM

DATE RECEIVED: 5/25/2023

TIME RECEIVED: 3:44 PM

MI

SAMPLED BY: BRENDAN RUPPEN/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-136

CHLORIDE EPA 300.0

Concentration

18

LOD

10

Units

mg/L (PPM)

Analyst

KC/TR

Date Completed

5/31/2023

Sample Matrix

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

