

**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: 2018100175.03

GTA ProjNo: 091918-8

Site Addr: JOUPPI

Sampled By: E. VINCKE/GCES

Date Rec: 9/19/2018

Time Rec: 2:35 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	RW-1	9/19/2018	8:35 AM	WATER
2	MW-4	9/19/2018	9:40 AM	WATER
3	MW-5D	9/19/2018	12:15 PM	WATER
4	MW-5S	9/19/2018	12:20 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: 2018100175.03
LOCATION: JOUPPI
MI
SAMPLE MATRIX: WATER
SAMPLE ID: RW-1

GTA PROJECT NO: 091918-8
GTA SAMPLE NO: 1
DATE SAMPLED: 9/19/2018
TIME SAMPLED: 8:35 AM
DATE RECEIVED: 9/19/2018
TIME RECEIVED: 2:35 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</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	705	100	ug/L (PPB)	MR		9/21/2018	EPA 5030B
Toluene	2,460	100					
Ethylbenzene	321	100					
Xylene(Total)	1,400	300					
1,2,4-Trimethylbenzene	419	100					
1,3,5-Trimethylbenzene	85	5.0					
Naphthalene	12	5.0					
2-Methylnaphthalene	33	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: 2018100175.03
LOCATION: JOUPPI
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-4

GTA PROJECT NO: 091918-8
GTA SAMPLE NO: 2
DATE SAMPLED: 9/19/2018
TIME SAMPLED: 9:40 AM
DATE RECEIVED: 9/19/2018
TIME RECEIVED: 2:35 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		9/21/2018	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: 2018100175.03
LOCATION: JOUPPI
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-5D

GTA PROJECT NO: 091918-8
GTA SAMPLE NO: 3
DATE SAMPLED: 9/19/2018
TIME SAMPLED: 12:15 PM
DATE RECEIVED: 9/19/2018
TIME RECEIVED: 2:35 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		9/21/2018	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: 2018100175.03
LOCATION: JOUPPI
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-5S
GTA PROJECT NO: 091918-8
GTA SAMPLE NO: 4
DATE SAMPLED: 9/19/2018
TIME SAMPLED: 12:20 PM
DATE RECEIVED: 9/19/2018
TIME RECEIVED: 2:35 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</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		9/21/2018	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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PROJECT NO: 2018100175.03
LOCATION: JOUPPI
MI
SAMPLED BY: E. VINCKE/GCES

GTA PROJECT NO: 091918-8
GTA SAMPLE NO: 1
DATE SAMPLED: 9/19/2018
TIME SAMPLED: 8:35 AM
DATE RECEIVED: 9/19/2018
TIME RECEIVED: 2:35 PM

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: RW-1 CHLORIDE EPA 300.0	176	2.5	mg/L (PPM)	KC	9/24/2018	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: 2018100175.03
LOCATION: JOUPPI
MI
SAMPLED BY: E. VINCKE/GCES

GTA PROJECT NO: 091918-8
GTA SAMPLE NO: 2
DATE SAMPLED: 9/19/2018
TIME SAMPLED: 9:40 AM
DATE RECEIVED: 9/19/2018
TIME RECEIVED: 2:35 PM

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-4						
	CHLORIDE EPA 300.0	22.4	2.5	mg/L (PPM)	KC	9/24/2018	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: 2018100175.03
LOCATION: JOUPPI
MI
SAMPLED BY: E. VINCKE/GCES

GTA PROJECT NO: 091918-8
GTA SAMPLE NO: 3
DATE SAMPLED: 9/19/2018
TIME SAMPLED: 12:15 PM
DATE RECEIVED: 9/19/2018
TIME RECEIVED: 2:35 PM

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-5D						
	CHLORIDE EPA 300.0	43.9	2.5	mg/L (PPM)	KC	9/24/2018	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: 2018100175.03
LOCATION: JOUPPI
MI
SAMPLED BY: E. VINCKE/GCES

GTA PROJECT NO: 091918-8
GTA SAMPLE NO: 4
DATE SAMPLED: 9/19/2018
TIME SAMPLED: 12:20 PM
DATE RECEIVED: 9/19/2018
TIME RECEIVED: 2:35 PM

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-5S CHLORIDE EPA 300.0	332	2.5	mg/L (PPM)	KC	9/24/2018	WATER

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

CHAIN OF CUSTODY

PROJECT NUMBER 2018100175.03	SITE NAME/ADDRESS Jacopi	COMPANY/NAME Lambda Energy Resources
SAMPLED BY E. Vincke	COMPANY GCES	GTA PROJECT # 091918-B

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	RW-1	9-19-18	08:35	GW	BTEX +4, Chloride
2	MW-4	↓	09:40	↓	↓ ↓ ↓
3	MW-5D	↓	12:15	↓	↓ ↓ ↓
4	MW-5s	↓	12:20	↓	↓ ↓ ↓

BILL TO:

GCES

REPORT TO:

J. Simsa

RELEASED BY

DATE/TIME

E. Vincke 9-19-18 / 14:35

RECEIVED BY

DATE/TIME

ASG 9/19/18 14:35
REC 70°C

REQUESTED TAT

☒ STANDARD

☐ 1 BUSINESS DAY

☐ 2 BUSINESS DAYS

☐ 3 BUSINESS DAYS