

**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: 2018100175.01

GTA ProjNo: 092719-8

Site Addr: JOUPPI 3-17

Sampled By: MARK STOVER/GCES

Date Rec: 9/27/2019

Time Rec: 2:40 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
2	MW-2R	9/27/2019		WATER
3	MW-4	9/27/2019		WATER
4	MW-5S	9/27/2019		WATER
5	MW-5D	9/27/2019		WATER
6	MW-3R	9/27/2019		WATER
7	RW-1	9/27/2019		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 L Chase

Kirk L. Chase/Chemist
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100175.01
LOCATION: JOUPPI 3-17
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-2R

GTA PROJECT NO: 092719-8
GTA SAMPLE NO: 2
DATE SAMPLED: 9/27/2019
TIME SAMPLED:
DATE RECEIVED: 9/27/2019
TIME RECEIVED: 2:40 PM
SAMPLED BY: MARK STOVER/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		10/1/2019	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: 2018100175.01
LOCATION: JOUPPI 3-17
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-4

GTA PROJECT NO: 092719-8
GTA SAMPLE NO: 3
DATE SAMPLED: 9/27/2019
TIME SAMPLED:
DATE RECEIVED: 9/27/2019
TIME RECEIVED: 2:40 PM
SAMPLED BY: MARK STOVER/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		10/1/2019	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: 2018100175.01
LOCATION: JOUPPI 3-17
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-5S

GTA PROJECT NO: 092719-8
GTA SAMPLE NO: 4
DATE SAMPLED: 9/27/2019
TIME SAMPLED:
DATE RECEIVED: 9/27/2019
TIME RECEIVED: 2:40 PM
SAMPLED BY: MARK STOVER/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		10/1/2019	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: 2018100175.01
LOCATION: JOUPPI 3-17
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-5D
GTA PROJECT NO: 092719-8
GTA SAMPLE NO: 5
DATE SAMPLED: 9/27/2019
TIME SAMPLED:
DATE RECEIVED: 9/27/2019
TIME RECEIVED: 2:40 PM
SAMPLED BY: MARK STOVER/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		10/1/2019	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: 2018100175.01
LOCATION: JOUPPI 3-17
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-3R

GTA PROJECT NO: 092719-8
GTA SAMPLE NO: 6
DATE SAMPLED: 9/27/2019
TIME SAMPLED:
DATE RECEIVED: 9/27/2019
TIME RECEIVED: 2:40 PM
SAMPLED BY: MARK STOVER/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		10/1/2019	EPA 5030B
Toluene	1.8	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	24	3.0					
1,2,4-Trimethylbenzene	2.7	1.0					
1,3,5-Trimethylbenzene	2.1	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100175.01
LOCATION: JOUPPI 3-17
MI
SAMPLE MATRIX: WATER
SAMPLE ID: RW-1

GTA PROJECT NO: 092719-8
GTA SAMPLE NO: 7
DATE SAMPLED: 9/27/2019
TIME SAMPLED:
DATE RECEIVED: 9/27/2019
TIME RECEIVED: 2:40 PM
SAMPLED BY: MARK STOVER/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	58	10	ug/L (PPB)	MR		10/1/2019	EPA 5030B
Toluene	670	10					
Ethylbenzene	72	10					
Xylene(Total)	820	30					
1,2,4-Trimethylbenzene	290	10					
1,3,5-Trimethylbenzene	72	10					
Naphthalene	5.6	5.0					
2-Methylnaphthalene	29	5.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 092719-8

PROJECT NO: 2018100175.01

GTA SAMPLE NO: 2

LOCATION: JOUPPI 3-17

DATE SAMPLED: 9/27/2019

TIME SAMPLED:

DATE RECEIVED: 9/27/2019

TIME RECEIVED: 2:40 PM

MI

SAMPLED BY: MARK STOVER/GCES

SAMPLE ANALYSIS**No: Analysis**

SAMPLE ID: MW-2R

CHLORIDE EPA 300.0

Concentration

23

LOD

10

Units

mg/L (PPM)

Analyst

LV

Date

10/10/2019

Sample

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: 092719-8

PROJECT NO: 2018100175.01

GTA SAMPLE NO: 3

LOCATION: JOUPPI 3-17

DATE SAMPLED: 9/27/2019

TIME SAMPLED:

DATE RECEIVED: 9/27/2019

TIME RECEIVED: 2:40 PM

MI

SAMPLED BY: MARK STOVER/GCES

SAMPLE ANALYSIS

<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	20	10	mg/L (PPM)	LV	10/10/2019	WATER

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LOD = LIMIT OF DETECTION

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 092719-8

PROJECT NO: 2018100175.01

GTA SAMPLE NO: 4

LOCATION: JOUPPI 3-17

DATE SAMPLED: 9/27/2019

TIME SAMPLED:

DATE RECEIVED: 9/27/2019

TIME RECEIVED: 2:40 PM

MI

SAMPLED BY: MARK STOVER/GCES

SAMPLE ANALYSIS

<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	23	10	mg/L (PPM)	LV	10/10/2019	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: 2018100175.01
LOCATION: JOUPPI 3-17
MI
SAMPLED BY: MARK STOVER/GCES

GTA PROJECT NO: 092719-8
GTA SAMPLE NO: 5
DATE SAMPLED: 9/27/2019
TIME SAMPLED:
DATE RECEIVED: 9/27/2019
TIME RECEIVED: 2:40 PM

SAMPLE ANALYSIS

<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	48	10	mg/L (PPM)	LV	10/10/2019	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: 092719-8

PROJECT NO: 2018100175.01

GTA SAMPLE NO: 6

LOCATION: JOUPPI 3-17

DATE SAMPLED: 9/27/2019

TIME SAMPLED:

DATE RECEIVED: 9/27/2019

TIME RECEIVED: 2:40 PM

MI

SAMPLED BY: MARK STOVER/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-3R

CHLORIDE EPA 300.0

Concentration

LOD

Units

Analyst

Date

Sample

14

10

mg/L (PPM)

LV

10/10/2019

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: 2018100175.01
LOCATION: JOUPPI 3-17
MI
SAMPLED BY: MARK STOVER/GCES

GTA PROJECT NO: 092719-8
GTA SAMPLE NO: 7
DATE SAMPLED: 9/27/2019
TIME SAMPLED:
DATE RECEIVED: 9/27/2019
TIME RECEIVED: 2:40 PM

SAMPLE ANALYSIS

<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		32	10	mg/L (PPM)	LV	10/10/2019	WATER

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

CHAIN OF CUSTODY

PROJECT NUMBER <i>2018100175.01</i>	SITE NAME/ADDRESS <i>TOUPEE 3-17</i>	COMPANY/NAME <i>LAMBDA ENERGY</i>
SAMPLED BY <i>MARK STOVER</i>	COMPANY <i>G.C.E.S.</i>	GTA PROJECT # <i>092719-8</i>

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	<i>MW-1R</i>	<i>9-27-19</i>		<i>GW</i>	<i>NO SAMPLE BTEX + 4, CHLORIDE</i>
2	<i>MW-2R</i>	<i>↓</i>		<i>↓</i>	<i>↓</i>
3	<i>MW-4</i>			<i>↓</i>	<i>↓</i>
4	<i>MW-5S</i>			<i>↓</i>	<i>↓</i>
5	<i>MW-5d</i>			<i>↓</i>	<i>↓</i>
6	<i>MW-3R</i>			<i>↓</i>	<i>↓</i>
7	<i>MW-RW-1</i>	<i>↓</i>		<i>↓</i>	<i>↓</i>

BILL TO: *LAMBDA ENERGY*

REPORT TO: *JEFF SIMSA*

RELEASED BY <i>[Signature]</i>	DATE/TIME <i>9-27-19</i>	RECEIVED BY <i>K. Du</i>	DATE/TIME <i>9/27/19 2:40p</i>
		<i>See 1.00L</i>	

REQUESTED TAT ☒ STANDARD ☐ 1 BUSINESS DAY ☐ 2 BUSINESS DAYS ☐ 3 BUSINESS DAYS