

**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: 121622-24

Site Addr: JOUPPI 3-17

Sampled By: MAX KORNDORFER/GCES

Date Rec: 12/16/2022

Time Rec: 2:30 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-1R	12/16/2022	11:40 AM	WATER
2	MW-2R	12/16/2022	11:55 AM	WATER
3	MW-3R	12/16/2022	12:15 PM	WATER
4	RW-1	12/16/2022	12:30 PM	WATER
5	MW-4	12/16/2022	12:55 PM	WATER
6	MW-5S	12/16/2022	1:20 PM	WATER
7	MW-5D	12/16/2022	1:30 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
Ph: 231-929-0905
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kirk@gtanalytical.com

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

GTA PROJECT NO: 121622-24
GTA SAMPLE NO: 1
DATE SAMPLED: 12/16/2022
TIME SAMPLED: 11:40 AM
DATE RECEIVED: 12/16/2022
TIME RECEIVED: 2:30 PM
SAMPLED BY: MAX KORNDORFER/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		12/20/2022	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-2R

GTA PROJECT NO: 121622-24
GTA SAMPLE NO: 2
DATE SAMPLED: 12/16/2022
TIME SAMPLED: 11:55 AM
DATE RECEIVED: 12/16/2022
TIME RECEIVED: 2:30 PM
SAMPLED BY: MAX KORNDORFER/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		12/20/2022	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: 2018100175.01
LOCATION: JOUPPI 3-17
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-3R

GTA PROJECT NO: 121622-24
GTA SAMPLE NO: 3
DATE SAMPLED: 12/16/2022
TIME SAMPLED: 12:15 PM
DATE RECEIVED: 12/16/2022
TIME RECEIVED: 2:30 PM
SAMPLED BY: MAX KORNDORFER/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		12/20/2022	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: 2018100175.01
LOCATION: JOUPPI 3-17
MI
SAMPLE MATRIX: WATER
SAMPLE ID: RW-1

GTA PROJECT NO: 121622-24
GTA SAMPLE NO: 4
DATE SAMPLED: 12/16/2022
TIME SAMPLED: 12:30 PM
DATE RECEIVED: 12/16/2022
TIME RECEIVED: 2:30 PM

SAMPLED BY: MAX KORNDORFER/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		12/20/2022	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: 2018100175.01
LOCATION: JOUPPI 3-17
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-4

GTA PROJECT NO: 121622-24
GTA SAMPLE NO: 5
DATE SAMPLED: 12/16/2022
TIME SAMPLED: 12:55 PM
DATE RECEIVED: 12/16/2022
TIME RECEIVED: 2:30 PM
SAMPLED BY: MAX KORNDORFER/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		12/20/2022	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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LOD = LIMIT OF DETECTION

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100175.01
LOCATION: JOUPPI 3-17
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-5S
GTA PROJECT NO: 121622-24
GTA SAMPLE NO: 6
DATE SAMPLED: 12/16/2022
TIME SAMPLED: 1:20 PM
DATE RECEIVED: 12/16/2022
TIME RECEIVED: 2:30 PM
SAMPLED BY: MAX KORNDORFER/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		12/20/2022	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: 2018100175.01
LOCATION: JOUPPI 3-17
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-5D

GTA PROJECT NO: 121622-24
GTA SAMPLE NO: 7
DATE SAMPLED: 12/16/2022
TIME SAMPLED: 1:30 PM
DATE RECEIVED: 12/16/2022
TIME RECEIVED: 2:30 PM
SAMPLED BY: MAX KORNDORFER/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		12/20/2022	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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LOD = LIMIT OF DETECTION

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 2018100175.01

LOCATION: JOUPPI 3-17

GTA PROJECT NO: 121622-24

GTA SAMPLE NO: 1

DATE SAMPLED: 12/16/2022

TIME SAMPLED: 11:40 AM

DATE RECEIVED: 12/16/2022

TIME RECEIVED: 2:30 PM

MI

SAMPLED BY: MAX KORNDORFER/GCES

SAMPLE ANALYSIS**No: Analysis**

SAMPLE ID: MW-1R

CHLORIDE EPA 300.0

Concentration

19

LOD

10

Units

mg/L (PPM)

Analyst

KC/TR

Date

12/29/2022

Sample

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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



INDEPENDENT TESTING LAB

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 121622-24

PROJECT NO: 2018100175.01

GTA SAMPLE NO: 2

LOCATION: JOUPPI 3-17

DATE SAMPLED: 12/16/2022

TIME SAMPLED: 11:55 AM

DATE RECEIVED: 12/16/2022

TIME RECEIVED: 2:30 PM

MI

SAMPLED BY: MAX KORNDORFER/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-2R

CHLORIDE EPA 300.0

Concentration

19

LOD

10

Units

mg/L (PPM)

Analyst

KC/TR

Date

12/29/2022

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: 121622-24

PROJECT NO: 2018100175.01

GTA SAMPLE NO: 3

LOCATION: JOUPPI 3-17

DATE SAMPLED: 12/16/2022

TIME SAMPLED: 12:15 PM

DATE RECEIVED: 12/16/2022

TIME RECEIVED: 2:30 PM

MI

SAMPLED BY: MAX KORNDORFER/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-3R

CHLORIDE EPA 300.0

Concentration

LOD

Units

Analyst

Date

Sample

27

10

mg/L (PPM)

KC/TR

12/29/2022

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: 121622-24

PROJECT NO: 2018100175.01

GTA SAMPLE NO: 4

LOCATION: JOUPPI 3-17

DATE SAMPLED: 12/16/2022

TIME SAMPLED: 12:30 PM

DATE RECEIVED: 12/16/2022

TIME RECEIVED: 2:30 PM

MI

SAMPLED BY: MAX KORNDORFER/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: RW-1

CHLORIDE EPA 300.0

Concentration

53

LOD

10

Units

mg/L (PPM)

Analyst

KC/TR

Date

12/29/2022

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: 121622-24

PROJECT NO: 2018100175.01

GTA SAMPLE NO: 5

LOCATION: JOUPPI 3-17

DATE SAMPLED: 12/16/2022

TIME SAMPLED: 12:55 PM

DATE RECEIVED: 12/16/2022

TIME RECEIVED: 2:30 PM

MI

SAMPLED BY: MAX KORNDORFER/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	37	10	mg/L (PPM)	KC/TR	12/29/2022	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: 121622-24

PROJECT NO: 2018100175.01

GTA SAMPLE NO: 6

LOCATION: JOUPPI 3-17

DATE SAMPLED: 12/16/2022

TIME SAMPLED: 1:20 PM

DATE RECEIVED: 12/16/2022

TIME RECEIVED: 2:30 PM

MI

SAMPLED BY: MAX KORNDORFER/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	28	10	mg/L (PPM)	KC/TR	12/29/2022	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

GTA PROJECT NO: 121622-24

PROJECT NO: 2018100175.01

GTA SAMPLE NO: 7

LOCATION: JOUPPI 3-17

DATE SAMPLED: 12/16/2022

TIME SAMPLED: 1:30 PM

DATE RECEIVED: 12/16/2022

TIME RECEIVED: 2:30 PM

MI

SAMPLED BY: MAX KORNDORFER/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-5D						
	CHLORIDE EPA 300.0	28	10	mg/L (PPM)	KC/TR	12/29/2022	WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

CHAIN OF CUSTODY

PROJECT NUMBER 201810075.01	SITE NAME/ADDRESS Touge 317	COMPANY/NAME Lambda Energy
SAMPLED BY M. Kordosfer	COMPANY Gces	GTA PROJECT # 121622-24

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	MW-1R	12-16-22	11:40	GW	BTEX +4, CI-
2	MW-2R	↓	11:55		
3	MW-3R		12:15		
4	RW-1		12:30		
5	MW-4		12:55		
6	MW-5S		1:20		
7	MW-5D		1:30		

BILL TO: Lambda	TempRec: ☐ 8.00C	On Ice? ☒ Y ☐ N	REPORT TO: J. Simsa (Gces)
RELEASED BY [Signature]	DATE/TIME 12-16-22 2:30p	RECEIVED BY [Signature]	DATE/TIME 12/16/22 2:30p
REQUESTED TAT ☐ STANDARD ☐ 1 BUSINESS DAY ☐ 2 BUSINESS DAYS ☐ 3 BUSINESS DAYS			