

**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: 093020-4

Site Addr: HAYES 22 CPF

Sampled By: BRENDAN RUPPEN/GCES

Date Rec: 9/30/2020

Time Rec: 9:30 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-126D2	9/29/2020	11:45 AM	WATER
2	MW-126D3	9/29/2020	12:50 PM	WATER
3	MW-127D2	9/29/2020	2:15 PM	WATER
4	MW-129D2	9/29/2020	3:07 PM	WATER
5	MW-132D2	9/29/2020	4:20 PM	WATER
6	MW-132D3	9/29/2020	4:40 PM	WATER
7	MW-132D4	9/29/2020	4:50 PM	WATER
8	MW-128	9/29/2020	6:15 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
Fx: 231-929-0894
SP: 231-590-0291
kirk@gtanalytical.com

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100106.01
LOCATION: HAYES 22 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-126D2

GTA PROJECT NO: 093020-4
GTA SAMPLE NO: 1
DATE SAMPLED: 9/29/2020
TIME SAMPLED: 11:45 AM
DATE RECEIVED: 9/30/2020
TIME RECEIVED: 9:30 AM
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		10/1/2020	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 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-126D3

GTA PROJECT NO: 093020-4
GTA SAMPLE NO: 2
DATE SAMPLED: 9/29/2020
TIME SAMPLED: 12:50 PM
DATE RECEIVED: 9/30/2020
TIME RECEIVED: 9:30 AM
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		10/1/2020	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100106.01
LOCATION: HAYES 22 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-127D2

GTA PROJECT NO: 093020-4
GTA SAMPLE NO: 3
DATE SAMPLED: 9/29/2020
TIME SAMPLED: 2:15 PM
DATE RECEIVED: 9/30/2020
TIME RECEIVED: 9:30 AM
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>
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Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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PROJECT NO: 2018100106.01
LOCATION: HAYES 22 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-129D2

GTA PROJECT NO: 093020-4
GTA SAMPLE NO: 4
DATE SAMPLED: 9/29/2020
TIME SAMPLED: 3:07 PM
DATE RECEIVED: 9/30/2020
TIME RECEIVED: 9:30 AM
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>
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100106.01
LOCATION: HAYES 22 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-132D2

GTA PROJECT NO: 093020-4
GTA SAMPLE NO: 5
DATE SAMPLED: 9/29/2020
TIME SAMPLED: 4:20 PM
DATE RECEIVED: 9/30/2020
TIME RECEIVED: 9:30 AM
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>
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Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100106.01
LOCATION: HAYES 22 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-132D3

GTA PROJECT NO: 093020-4
GTA SAMPLE NO: 6
DATE SAMPLED: 9/29/2020
TIME SAMPLED: 4:40 PM
DATE RECEIVED: 9/30/2020
TIME RECEIVED: 9:30 AM
SAMPLED BY: BRENDAN RUPPEN/GCES

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<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>
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100106.01
LOCATION: HAYES 22 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-132D4

GTA PROJECT NO: 093020-4
GTA SAMPLE NO: 7
DATE SAMPLED: 9/29/2020
TIME SAMPLED: 4:50 PM
DATE RECEIVED: 9/30/2020
TIME RECEIVED: 9:30 AM
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>
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100106.01
LOCATION: HAYES 22 CPF
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-128

GTA PROJECT NO: 093020-4
GTA SAMPLE NO: 8
DATE SAMPLED: 9/29/2020
TIME SAMPLED: 6:15 PM
DATE RECEIVED: 9/30/2020
TIME RECEIVED: 9:30 AM
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		10/1/2020	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					

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GTA PROJECT NO: 093020-4

PROJECT NO: 2018100106.01

GTA SAMPLE NO: 1

LOCATION: HAYES 22 CPF

DATE SAMPLED: 9/29/2020

TIME SAMPLED: 11:45 AM

DATE RECEIVED: 9/30/2020

TIME RECEIVED: 9:30 AM

MI

SAMPLED BY: BRENDAN RUPPEN/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-126D2

CHLORIDE EPA 300.0

Concentration

16

LOD

10

Units

mg/L (PPM)

Analyst

LV

Date Completed

10/3/2020

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

PROJECT NO: 2018100106.01

LOCATION: HAYES 22 CPF

GTA PROJECT NO: 093020-4

GTA SAMPLE NO: 2

DATE SAMPLED: 9/29/2020

TIME SAMPLED: 12:50 PM

DATE RECEIVED: 9/30/2020

TIME RECEIVED: 9:30 AM

SAMPLED BY: MI
BRENDAN RUPPEN/GCES**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</u>
	SAMPLE ID: MW-126D3						
	CHLORIDE EPA 300.0	14	10	mg/L (PPM)	LV	10/3/2020	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: 093020-4

PROJECT NO: 2018100106.01

GTA SAMPLE NO: 3

LOCATION: HAYES 22 CPF

DATE SAMPLED: 9/29/2020

TIME SAMPLED: 2:15 PM

DATE RECEIVED: 9/30/2020

TIME RECEIVED: 9:30 AM

MI

SAMPLED BY: BRENDAN RUPPEN/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-127D2

CHLORIDE EPA 300.0

Concentration

ND

LOD

10

Units

mg/L (PPM)

Analyst

LV

Date Completed

10/3/2020

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: 093020-4

PROJECT NO: 2018100106.01

GTA SAMPLE NO: 4

LOCATION: HAYES 22 CPF

DATE SAMPLED: 9/29/2020

TIME SAMPLED: 3:07 PM

DATE RECEIVED: 9/30/2020

TIME RECEIVED: 9:30 AM

MI

SAMPLED BY: BRENDAN RUPPEN/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-129D2

CHLORIDE EPA 300.0

Concentration

LOD

Units

Analyst

Date Completed

Sample

ND

10

mg/L (PPM)

LV

10/3/2020

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: 093020-4

PROJECT NO: 2018100106.01

GTA SAMPLE NO: 5

LOCATION: HAYES 22 CPF

DATE SAMPLED: 9/29/2020

TIME SAMPLED: 4:20 PM

DATE RECEIVED: 9/30/2020

TIME RECEIVED: 9:30 AM

MI

SAMPLED BY: BRENDAN RUPPEN/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-132D2

CHLORIDE EPA 300.0

Concentration

LOD

Units

Analyst

Date Completed

Sample

ND

10

mg/L (PPM)

LV

10/3/2020

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: 093020-4

PROJECT NO: 2018100106.01

GTA SAMPLE NO: 6

LOCATION: HAYES 22 CPF

DATE SAMPLED: 9/29/2020

TIME SAMPLED: 4:40 PM

DATE RECEIVED: 9/30/2020

TIME RECEIVED: 9:30 AM

MI

SAMPLED BY: BRENDAN RUPPEN/GCES

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-132D3

CHLORIDE EPA 300.0

Concentration

ND

LOD

10

Units

mg/L (PPM)

Analyst

LV

Date Completed

10/3/2020

Sample

WATER

ND = NOT DETECTED, RESULT < LOD

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100106.01
LOCATION: HAYES 22 CPF
MI
SAMPLED BY: BRENDAN RUPPEN/GCES

GTA PROJECT NO: 093020-4
GTA SAMPLE NO: 7
DATE SAMPLED: 9/29/2020
TIME SAMPLED: 4:50 PM
DATE RECEIVED: 9/30/2020
TIME RECEIVED: 9:30 AM

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</u>
	SAMPLE ID: MW-132D4 CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	10/3/2020	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: 093020-4

PROJECT NO: 2018100106.01

GTA SAMPLE NO: 8

LOCATION: HAYES 22 CPF

DATE SAMPLED: 9/29/2020

TIME SAMPLED: 6:15 PM

DATE RECEIVED: 9/30/2020

TIME RECEIVED: 9:30 AM

MI

SAMPLED BY: BRENDAN RUPPEN/GCES

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</u>
	SAMPLE ID: MW-128						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	10/3/2020	WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

CHAIN OF CUSTODY

PROJECT NUMBER 2018100106	SITE NAME/ADDRESS Hoyes 22	COMPANY/NAME LER
SAMPLED BY Brendan P. Ruppen	COMPANY GCES	GTA PROJECT # 093020-4

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	MW 126 D2	9/29/20	11:45	GW	BTEX, chloride
2	MW 126 D3	9/29/20	12:50	GW	
3	MW 127 D2		2:15		
4	MW 129 D2		3:07		
5	MW 132 D2		4:20		
6	MW 132 D3		4:40		
7	MW 132 D4		4:50		
8	MW 128		6:15		

BILL TO: **LER**

REPORT TO:
A. Biteman

RELEASED BY B. P. Ruppen	DATE/TIME 9/30/20 9:30	RECEIVED BY R. Ch	DATE/TIME 9/30/20 9:30 a
		See 6.11/2	

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