

**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: 082024-7

Site Addr: HAYES 22 CPF

Sampled By: JOSHUA GERRIE/GCES

Date Rec: 8/20/2024

Time Rec: 4:31 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-204	8/20/2024	11:07 AM	WATER
2	MW-206	8/20/2024	11:50 AM	WATER
3	MW-203	8/20/2024	12:23 PM	WATER
4	MW-202	8/20/2024	12:55 PM	WATER
5	MW-205	8/20/2024	1:28 PM	WATER
6	MW-201	8/20/2024	2:08 PM	WATER
7	MW-207S	8/20/2024	2:36 PM	WATER
8	MW-207D	8/20/2024	2:59 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	GTA PROJECT NO:	082024-7
PROJECT NO:	2018100106.01	GTA SAMPLE NO:	1
LOCATION:	HAYES 22 CPF	DATE SAMPLED:	8/20/2024
		TIME SAMPLED:	11:07 AM
		DATE RECEIVED:	8/20/2024
	MI	TIME RECEIVED:	4:31 PM
SAMPLE MATRIX:	WATER		
SAMPLE ID:	MW-204	SAMPLED BY:	JOSHUA GERRIE/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>Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		8/21/2024	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	GTA PROJECT NO:	082024-7
PROJECT NO:	2018100106.01	GTA SAMPLE NO:	2
LOCATION:	HAYES 22 CPF	DATE SAMPLED:	8/20/2024
		TIME SAMPLED:	11:50 AM
		DATE RECEIVED:	8/20/2024
	MI	TIME RECEIVED:	4:31 PM
SAMPLE MATRIX:	WATER		
SAMPLE ID:	MW-206	SAMPLED BY:	JOSHUA GERRIE/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>Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		8/21/2024	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.

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LOD = LIMIT OF DETECTION

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COMPANY:	LAMBDA ENERGY RESOURCES, LLC	GTA PROJECT NO:	082024-7
PROJECT NO:	2018100106.01	GTA SAMPLE NO:	3
LOCATION:	HAYES 22 CPF	DATE SAMPLED:	8/20/2024
		TIME SAMPLED:	12:23 PM
		DATE RECEIVED:	8/20/2024
	MI	TIME RECEIVED:	4:31 PM
SAMPLE MATRIX:	WATER		
SAMPLE ID:	MW-203	SAMPLED BY:	JOSHUA GERRIE/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>Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		8/21/2024	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.

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LOD = LIMIT OF DETECTION

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COMPANY:	LAMBDA ENERGY RESOURCES, LLC	GTA PROJECT NO:	082024-7
PROJECT NO:	2018100106.01	GTA SAMPLE NO:	4
LOCATION:	HAYES 22 CPF	DATE SAMPLED:	8/20/2024
		TIME SAMPLED:	12:55 PM
		DATE RECEIVED:	8/20/2024
	MI	TIME RECEIVED:	4:31 PM
SAMPLE MATRIX:	WATER		
SAMPLE ID:	MW-202	SAMPLED BY:	JOSHUA GERRIE/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>Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		8/21/2024	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.

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LOD = LIMIT OF DETECTION

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COMPANY:	LAMBDA ENERGY RESOURCES, LLC	GTA PROJECT NO:	082024-7
PROJECT NO:	2018100106.01	GTA SAMPLE NO:	5
LOCATION:	HAYES 22 CPF	DATE SAMPLED:	8/20/2024
		TIME SAMPLED:	1:28 PM
		DATE RECEIVED:	8/20/2024
	MI	TIME RECEIVED:	4:31 PM
SAMPLE MATRIX:	WATER		
SAMPLE ID:	MW-205	SAMPLED BY:	JOSHUA GERRIE/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>Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		8/21/2024	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.

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LOD = LIMIT OF DETECTION

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COMPANY:	LAMBDA ENERGY RESOURCES, LLC	GTA PROJECT NO:	082024-7
PROJECT NO:	2018100106.01	GTA SAMPLE NO:	6
LOCATION:	HAYES 22 CPF	DATE SAMPLED:	8/20/2024
		TIME SAMPLED:	2:08 PM
		DATE RECEIVED:	8/20/2024
	MI	TIME RECEIVED:	4:31 PM
SAMPLE MATRIX:	WATER		
SAMPLE ID:	MW-201	SAMPLED BY:	JOSHUA GERRIE/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>Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		8/21/2024	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	GTA PROJECT NO:	082024-7
PROJECT NO:	2018100106.01	GTA SAMPLE NO:	7
LOCATION:	HAYES 22 CPF	DATE SAMPLED:	8/20/2024
		TIME SAMPLED:	2:36 PM
		DATE RECEIVED:	8/20/2024
	MI	TIME RECEIVED:	4:31 PM
SAMPLE MATRIX:	WATER		
SAMPLE ID:	MW-207S	SAMPLED BY:	JOSHUA GERRIE/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>Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		8/21/2024	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	GTA PROJECT NO:	082024-7
PROJECT NO:	2018100106.01	GTA SAMPLE NO:	8
LOCATION:	HAYES 22 CPF	DATE SAMPLED:	8/20/2024
		TIME SAMPLED:	2:59 PM
		DATE RECEIVED:	8/20/2024
	MI	TIME RECEIVED:	4:31 PM
SAMPLE MATRIX:	WATER		
SAMPLE ID:	MW-207D	SAMPLED BY:	JOSHUA GERRIE/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>Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		8/21/2024	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

GTA PROJECT NO: 082024-7

PROJECT NO: 2018100106.01

GTA SAMPLE NO: 1

LOCATION: HAYES 22 CPF

DATE SAMPLED: 8/20/2024

TIME SAMPLED: 11:07 AM

DATE RECEIVED: 8/20/2024

TIME RECEIVED: 4:31 PM

SAMPLED BY: MI

JOSHUA GERRIE/GCES

SAMPLE MATRIX: WATER

SAMPLE ID: MW-204

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
ARSENIC DISS EPA 200.8	ND	0.0010	mg/L (PPM)	MR	8/23/2024	EPA 3005A
IRON DISS EPA 200.8	ND	0.050	mg/L (PPM)	MR	8/23/2024	EPA 3005A
MANGANESE DISS EPA 200.8	ND	0.0010	mg/L (PPM)	MR	8/23/2024	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 082024-7

PROJECT NO: 2018100106.01

GTA SAMPLE NO: 2

LOCATION: HAYES 22 CPF

DATE SAMPLED: 8/20/2024

TIME SAMPLED: 11:50 AM

DATE RECEIVED: 8/20/2024

TIME RECEIVED: 4:31 PM

SAMPLED BY: MI

JOSHUA GERRIE/GCES

SAMPLE MATRIX: WATER

SAMPLE ID: MW-206

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
ARSENIC DISS EPA 200.8	ND	0.0010	mg/L (PPM)	MR	8/23/2024	EPA 3005A
IRON DISS EPA 200.8	ND	0.050	mg/L (PPM)	MR	8/23/2024	EPA 3005A
MANGANESE DISS EPA 200.8	ND	0.0010	mg/L (PPM)	MR	8/23/2024	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 082024-7

PROJECT NO: 2018100106.01

GTA SAMPLE NO: 3

LOCATION: HAYES 22 CPF

DATE SAMPLED: 8/20/2024

TIME SAMPLED: 12:23 PM

DATE RECEIVED: 8/20/2024

TIME RECEIVED: 4:31 PM

SAMPLED BY: MI

SAMPLE MATRIX: WATER

JOSHUA GERRIE/GCES

SAMPLE ID: MW-203

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
ARSENIC DISS EPA 200.8	ND	0.0010	mg/L (PPM)	MR	8/23/2024	EPA 3005A
IRON DISS EPA 200.8	ND	0.050	mg/L (PPM)	MR	8/23/2024	EPA 3005A
MANGANESE DISS EPA 200.8	ND	0.0010	mg/L (PPM)	MR	8/23/2024	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 082024-7

PROJECT NO: 2018100106.01

GTA SAMPLE NO: 4

LOCATION: HAYES 22 CPF

DATE SAMPLED: 8/20/2024

TIME SAMPLED: 12:55 PM

DATE RECEIVED: 8/20/2024

TIME RECEIVED: 4:31 PM

SAMPLED BY: MI

SAMPLE MATRIX: WATER

JOSHUA GERRIE/GCES

SAMPLE ID: MW-202

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
ARSENIC DISS EPA 200.8	ND	0.0010	mg/L (PPM)	MR	8/23/2024	EPA 3005A
IRON DISS EPA 200.8	ND	0.050	mg/L (PPM)	MR	8/23/2024	EPA 3005A
MANGANESE DISS EPA 200.8	ND	0.0010	mg/L (PPM)	MR	8/23/2024	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 082024-7

PROJECT NO: 2018100106.01

GTA SAMPLE NO: 5

LOCATION: HAYES 22 CPF

DATE SAMPLED: 8/20/2024

TIME SAMPLED: 1:28 PM

DATE RECEIVED: 8/20/2024

TIME RECEIVED: 4:31 PM

SAMPLED BY: MI

SAMPLE MATRIX: WATER

JOSHUA GERRIE/GCES

SAMPLE ID: MW-205

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
ARSENIC DISS EPA 200.8	ND	0.0010	mg/L (PPM)	MR	8/23/2024	EPA 3005A
IRON DISS EPA 200.8	ND	0.050	mg/L (PPM)	MR	8/23/2024	EPA 3005A
MANGANESE DISS EPA 200.8	ND	0.0010	mg/L (PPM)	MR	8/23/2024	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 082024-7

PROJECT NO: 2018100106.01

GTA SAMPLE NO: 6

LOCATION: HAYES 22 CPF

DATE SAMPLED: 8/20/2024

TIME SAMPLED: 2:08 PM

DATE RECEIVED: 8/20/2024

TIME RECEIVED: 4:31 PM

SAMPLED BY: MI

SAMPLE MATRIX: WATER

JOSHUA GERRIE/GCES

SAMPLE ID: MW-201

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
ARSENIC DISS EPA 200.8	ND	0.0010	mg/L (PPM)	MR	8/23/2024	EPA 3005A
IRON DISS EPA 200.8	ND	0.050	mg/L (PPM)	MR	8/23/2024	EPA 3005A
MANGANESE DISS EPA 200.8	ND	0.0010	mg/L (PPM)	MR	8/23/2024	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 082024-7

PROJECT NO: 2018100106.01

GTA SAMPLE NO: 7

LOCATION: HAYES 22 CPF

DATE SAMPLED: 8/20/2024

TIME SAMPLED: 2:36 PM

DATE RECEIVED: 8/20/2024

TIME RECEIVED: 4:31 PM

SAMPLED BY: MI

SAMPLE MATRIX: WATER

JOSHUA GERRIE/GCES

SAMPLE ID: MW-207S

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
ARSENIC DISS EPA 200.8	ND	0.0010	mg/L (PPM)	MR	8/23/2024	EPA 3005A
IRON DISS EPA 200.8	ND	0.050	mg/L (PPM)	MR	8/23/2024	EPA 3005A
MANGANESE DISS EPA 200.8	ND	0.0010	mg/L (PPM)	MR	8/23/2024	EPA 3005A

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LOD = LIMIT OF DETECTION

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 2018100106.01
LOCATION: HAYES 22 CPFSAMPLED BY: MI
JOSHUA GERRIE/GCES

SAMPLE ID: MW-207D

GTA PROJECT NO: 082024-7
GTA SAMPLE NO: 8DATE SAMPLED: 8/20/2024
TIME SAMPLED: 2:59 PM
DATE RECEIVED: 8/20/2024
TIME RECEIVED: 4:31 PM
SAMPLE MATRIX: WATER**METALS**

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
ARSENIC DISS EPA 200.8	ND	0.0010	mg/L (PPM)	MR	8/23/2024	EPA 3005A
IRON DISS EPA 200.8	ND	0.050	mg/L (PPM)	MR	8/23/2024	EPA 3005A
MANGANESE DISS EPA 200.8	ND	0.0010	mg/L (PPM)	MR	8/23/2024	EPA 3005A

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION

DISS = DISSOLVED

