



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 Site Addr: WEDHOLM MCCAGUE 1-31
Name:
ClientProj: 2018100142
GTA ProjNo: 123024-5 Sampled By: JFR/GCES
Date Rec: 12/30/2024
Time Rec: 1:00 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-101S	12/30/2024	9:40 AM	WATER
2	MW-101D	12/30/2024	9:50 AM	WATER
3	MW-104S	12/30/2024	10:00 AM	WATER
4	MW-104D	12/30/2024	10:10 AM	WATER
5	MW-105	12/30/2024	10:20 AM	WATER
6	MW-106	12/30/2024	10:30 AM	WATER
7	MW-107	12/30/2024	10:40 AM	WATER
8	SUMP	12/30/2024	10:50 AM	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
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100142
LOCATION: WEDHOLM MCCAGUE 1-31
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-101S

GTA PROJECT NO: 123024-5
GTA SAMPLE NO: 1
DATE SAMPLED: 12/30/2024
TIME SAMPLED: 9:40 AM
DATE RECEIVED: 12/30/2024
TIME RECEIVED: 1:00 PM

SAMPLED BY: JFR/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		12/31/2024	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

COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 2018100142
 LOCATION: WEDHOLM MCCAGUE 1-31
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-101D

GTA PROJECT NO: 123024-5
 GTA SAMPLE NO: 2
 DATE SAMPLED: 12/30/2024
 TIME SAMPLED: 9:50 AM
 DATE RECEIVED: 12/30/2024
 TIME RECEIVED: 1:00 PM

SAMPLED BY: JFR/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		12/31/2024	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

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100142
LOCATION: WEDHOLM MCCAGUE 1-31
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-104S

GTA PROJECT NO: 123024-5
GTA SAMPLE NO: 3
DATE SAMPLED: 12/30/2024
TIME SAMPLED: 10:00 AM
DATE RECEIVED: 12/30/2024
TIME RECEIVED: 1:00 PM

SAMPLED BY: JFR/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		12/31/2024	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: 2018100142
 LOCATION: WEDHOLM MCCAGUE 1-31
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-104D

GTA PROJECT NO: 123024-5
 GTA SAMPLE NO: 4
 DATE SAMPLED: 12/30/2024
 TIME SAMPLED: 10:10 AM
 DATE RECEIVED: 12/30/2024
 TIME RECEIVED: 1:00 PM

SAMPLED BY: JFR/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		12/31/2024	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

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100142
LOCATION: WEDHOLM MCCAGUE 1-31
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-105

GTA PROJECT NO: 123024-5
GTA SAMPLE NO: 5
DATE SAMPLED: 12/30/2024
TIME SAMPLED: 10:20 AM
DATE RECEIVED: 12/30/2024
TIME RECEIVED: 1:00 PM

SAMPLED BY: JFR/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		12/31/2024	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

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100142
LOCATION: WEDHOLM MCCAGUE 1-31
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-106

GTA PROJECT NO: 123024-5
GTA SAMPLE NO: 6
DATE SAMPLED: 12/30/2024
TIME SAMPLED: 10:30 AM
DATE RECEIVED: 12/30/2024
TIME RECEIVED: 1:00 PM

SAMPLED BY: JFR/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		12/31/2024	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

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100142
LOCATION: WEDHOLM MCCAGUE 1-31
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-107

GTA PROJECT NO: 123024-5
GTA SAMPLE NO: 7
DATE SAMPLED: 12/30/2024
TIME SAMPLED: 10:40 AM
DATE RECEIVED: 12/30/2024
TIME RECEIVED: 1:00 PM

SAMPLED BY: JFR/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		12/31/2024	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

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100142
LOCATION: WEDHOLM MCCAGUE 1-31
MI
SAMPLE MATRIX: WATER
SAMPLE ID: SUMP

GTA PROJECT NO: 123024-5
GTA SAMPLE NO: 8
DATE SAMPLED: 12/30/2024
TIME SAMPLED: 10:50 AM
DATE RECEIVED: 12/30/2024
TIME RECEIVED: 1:00 PM

SAMPLED BY: JFR/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	3.8	1.0	ug/L (PPB)	MR		12/31/2024	EPA 5030B
Toluene	3,600	25					
Ethylbenzene	220	1.0					
Xylene(Total)	2,000	75					
1,2,4-Trimethylbenzene	11,000	25					
1,3,5-Trimethylbenzene	3,300	25					
Naphthalene	25	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: 2018100142
LOCATION: WEDHOLM MCCAGUE 1-31
MI
SAMPLED BY: JFR/GCES
SAMPLE ID: MW-101S

GTA PROJECT NO: 123024-5
GTA SAMPLE NO: 1
DATE RECEIVED: 12/30/2024
TIME RECEIVED: 1:00 PM
DATE SAMPLED: 12/30/2024
TIME SAMPLED: 9:40 AM
SAMPLE MATRIX: WATER

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
CHLORIDE EPA 300.0	15	10	mg/L (PPM)	KC/TR	1/2/2025
TOTAL DISSOLVED SOLIDS EPA 160.1	270	5.0	mg/L (PPM)	TR	1/3/2025

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



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COMPANY: LAMBDA ENERGY RESOURCES, LLC GTA PROJECT NO: 123024-5
PROJECT NO: 2018100142 GTA SAMPLE NO: 2
LOCATION: WEDHOLM MCCAGUE 1-31 DATE RECEIVED: 12/30/2024
MI TIME RECEIVED: 1:00 PM
SAMPLED BY: JFR/GCES DATE SAMPLED: 12/30/2024
MI TIME SAMPLED: 9:50 AM
SAMPLE ID: MW-101D SAMPLE MATRIX: WATER

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
CHLORIDE EPA 300.0	41	10	mg/L (PPM)	KC/TR	1/2/2025
TOTAL DISSOLVED SOLIDS EPA 160.1	240	5.0	mg/L (PPM)	TR	1/3/2025

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



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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100142
LOCATION: WEDHOLM MCCAGUE 1-31
MI
SAMPLED BY: JFR/GCES
SAMPLE ID: MW-104S
GTA PROJECT NO: 123024-5
GTA SAMPLE NO: 3
DATE RECEIVED: 12/30/2024
TIME RECEIVED: 1:00 PM
DATE SAMPLED: 12/30/2024
TIME SAMPLED: 10:00 AM
SAMPLE MATRIX: WATER

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
CHLORIDE EPA 300.0	33	10	mg/L (PPM)	KC/TR	1/2/2025
TOTAL DISSOLVED SOLIDS EPA 160.1	250	5.0	mg/L (PPM)	TR	1/3/2025

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



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PH: 231-929-0905

FAX: 231-929-0894

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100142
LOCATION: WEDHOLM MCCAGUE 1-31
MI
SAMPLED BY: JFR/GCES
SAMPLE ID: MW-104D

GTA PROJECT NO: 123024-5
GTA SAMPLE NO: 4
DATE RECEIVED: 12/30/2024
TIME RECEIVED: 1:00 PM
DATE SAMPLED: 12/30/2024
TIME SAMPLED: 10:10 AM
SAMPLE MATRIX: WATER

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
CHLORIDE EPA 300.0	47	10	mg/L (PPM)	KC/TR	1/2/2025
TOTAL DISSOLVED SOLIDS EPA 160.1	270	5.0	mg/L (PPM)	TR	1/3/2025

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



INDEPENDENT TESTING LAB

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PH: 231-929-0905

FAX: 231-929-0894

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 2018100142
LOCATION: WEDHOLM MCCAGUE 1-31

GTA PROJECT NO: 123024-5
GTA SAMPLE NO: 5
DATE SAMPLED: 12/30/2024
TIME SAMPLED: 10:20 AM
DATE RECEIVED: 12/30/2024
TIME RECEIVED: 1:00 PM

SAMPLED BY: MI
JFR/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 Matrix</u>
SAMPLE ID: MW-105	CHLORIDE EPA 300.0	75	10	mg/L (PPM)	KC/TR	1/2/2025	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: 2018100142
 LOCATION: WEDHOLM MCCAGUE 1-31

GTA PROJECT NO: 123024-5
 GTA SAMPLE NO: 6
 DATE SAMPLED: 12/30/2024
 TIME SAMPLED: 10:30 AM
 DATE RECEIVED: 12/30/2024
 TIME RECEIVED: 1:00 PM

SAMPLED BY: MI
 JFR/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 Matrix</u>
	SAMPLE ID: MW-106 CHLORIDE EPA 300.0	32	10	mg/L (PPM)	KC/TR	1/2/2025	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: 2018100142
 LOCATION: WEDHOLM MCCAGUE 1-31

GTA PROJECT NO: 123024-5
 GTA SAMPLE NO: 7
 DATE SAMPLED: 12/30/2024
 TIME SAMPLED: 10:40 AM
 DATE RECEIVED: 12/30/2024
 TIME RECEIVED: 1:00 PM

SAMPLED BY: MI
 JFR/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 Matrix</u>
	SAMPLE ID: MW-107 CHLORIDE EPA 300.0	86	10	mg/L (PPM)	KC/TR	1/2/2025	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: 2018100142
 LOCATION: WEDHOLM MCCAGUE 1-31

GTA PROJECT NO: 123024-5
 GTA SAMPLE NO: 8
 DATE SAMPLED: 12/30/2024
 TIME SAMPLED: 10:50 AM
 DATE RECEIVED: 12/30/2024
 TIME RECEIVED: 1:00 PM

SAMPLED BY: MI
 JFR/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 Matrix</u>
SAMPLE ID:	SUMP	750	50	mg/L (PPM)	KC/TR	1/2/2025	WATER
	CHLORIDE EPA 300.0						

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

CHAIN OF CUSTODY

PROJECT NUMBER 2018100142	SITE NAME/ADDRESS Wedholm McCague 1-31	COMPANY/NAME Lambda Energy Resources LLC
SAMPLED BY JFR	COMPANY GCES	GTA PROJECT # 123024-5

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS	
1	MW-1015	12/30/24	9:40	GW	BTEX +4, Chloride, TDS	
2	MW-101d	}	9:50	}	}	
3	MW-104s		1000			
4	MW-104d		1010			
5	MW-105		1020			BTEX +4, chloride
6	MW-106		1030			
7	MW-107		1040			
8	SUMP		1050			.

BILL TO: GCES	TempRec: <input type="checkbox"/> 5.5	On Ice? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	REPORT TO: J. Simson
RELEASED BY 	DATE/TIME 1300 12/30/24	RECEIVED BY 	DATE/TIME 12/30/24 13:00

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