



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
Name:
ClientProj: 2018100142.01
GTA ProjNo: 091624-3

Site Addr: WEDHOLM MCCAGUE 1-31

Sampled By: JOSHUA GERRIE/GCES
Date Rec: 9/16/2024
Time Rec: 2:30 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-101S	9/16/2024		WATER
2	MW-101D	9/16/2024		WATER
3	MW-104S	9/16/2024		WATER
4	MW-104D	9/16/2024		WATER
5	MW-105	9/16/2024		WATER
6	MW-106	9/16/2024		WATER
7	MW-107	9/16/2024		WATER
8	SUMP	9/16/2024		WATER

ELECTRONIC SIGNITURE 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

COMPANY: LAMBDA ENERGY RESOURCES
PROJECT NO: 2018100142.01
LOCATION: WEDHOLM MCCAGUE 1-31
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-101S

GTA PROJECT NO: 091624-3
GTA SAMPLE NO: 1
DATE SAMPLED: 9/16/2024
TIME SAMPLED:
DATE RECEIVED: 9/16/2024
TIME RECEIVED: 2:30 PM

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		9/17/2024	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
PROJECT NO: 2018100142.01
LOCATION: WEDHOLM MCCAGUE 1-31
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-101D

GTA PROJECT NO: 091624-3
GTA SAMPLE NO: 2
DATE SAMPLED: 9/16/2024
TIME SAMPLED:
DATE RECEIVED: 9/16/2024
TIME RECEIVED: 2:30 PM

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		9/17/2024	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

COMPANY: LAMBDA ENERGY RESOURCES
 PROJECT NO: 2018100142.01
 LOCATION: WEDHOLM MCCAGUE 1-31
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-104S

GTA PROJECT NO: 091624-3
 GTA SAMPLE NO: 3
 DATE SAMPLED: 9/16/2024
 TIME SAMPLED:
 DATE RECEIVED: 9/16/2024
 TIME RECEIVED: 2:30 PM

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 Extracted</u>	<u>Date Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		9/17/2024	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

COMPANY: LAMBDA ENERGY RESOURCES
PROJECT NO: 2018100142.01
LOCATION: WEDHOLM MCCAGUE 1-31
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-104D

GTA PROJECT NO: 091624-3
GTA SAMPLE NO: 4
DATE SAMPLED: 9/16/2024
TIME SAMPLED:
DATE RECEIVED: 9/16/2024
TIME RECEIVED: 2:30 PM

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		9/17/2024	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

COMPANY: LAMBDA ENERGY RESOURCES
 PROJECT NO: 2018100142.01
 LOCATION: WEDHOLM MCCAGUE 1-31
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-105

GTA PROJECT NO: 091624-3
 GTA SAMPLE NO: 5
 DATE SAMPLED: 9/16/2024
 TIME SAMPLED:
 DATE RECEIVED: 9/16/2024
 TIME RECEIVED: 2:30 PM

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 Extracted</u>	<u>Date Completed</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		9/17/2024	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	1.5	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
PROJECT NO: 2018100142.01
LOCATION: WEDHOLM MCCAGUE 1-31
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-106

GTA PROJECT NO: 091624-3
GTA SAMPLE NO: 6
DATE SAMPLED: 9/16/2024
TIME SAMPLED:
DATE RECEIVED: 9/16/2024
TIME RECEIVED: 2:30 PM

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		9/17/2024	EPA 5030B
Toluene	1.0	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
PROJECT NO: 2018100142.01
LOCATION: WEDHOLM MCCAGUE 1-31
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-107

GTA PROJECT NO: 091624-3
GTA SAMPLE NO: 7
DATE SAMPLED: 9/16/2024
TIME SAMPLED:
DATE RECEIVED: 9/16/2024
TIME RECEIVED: 2:30 PM

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		9/17/2024	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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COMPANY: LAMBDA ENERGY RESOURCES
 PROJECT NO: 2018100142.01
 LOCATION: WEDHOLM MCCAGUE 1-31
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: SUMP

GTA PROJECT NO: 091624-3
 GTA SAMPLE NO: 8
 DATE SAMPLED: 9/16/2024
 TIME SAMPLED:
 DATE RECEIVED: 9/16/2024
 TIME RECEIVED: 2:30 PM

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 Extracted</u>	<u>Date Completed</u>	<u>Prep Method</u>
Benzene	1.4	1.0	ug/L (PPB)	MR		9/18/2024	EPA 5030B
Toluene	150	1.0					
Ethylbenzene	38	10					
Xylene(Total)	1,400	30					
1,2,4-Trimethylbenzene	11,000	100					
1,3,5-Trimethylbenzene	2,800	10					
Naphthalene	40	5.0					
2-Methylnaphthalene	ND	5.0					

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PROJECT NO: 2018100142.01
LOCATION: WEDHOLM MCCAGUE 1-31

GTA PROJECT NO: 091624-3
GTA SAMPLE NO: 1
DATE SAMPLED: 9/16/2024
TIME SAMPLED:
DATE RECEIVED: 9/16/2024
TIME RECEIVED: 2:30 PM

MI
SAMPLED BY: JOSHUA GERRIE/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-101S							
	CHLORIDE EPA 300.0	63	10	mg/L (PPM)	KC/TR	9/22/2024	WATER
	TOTAL DISSOLVED SOLIDS EPA 160.1	340	5.0	mg/L (PPM)	TR	9/19/2024	WATER

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



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PROJECT NO: 2018100142.01
LOCATION: WEDHOLM MCCAGUE 1-31

GTA PROJECT NO: 091624-3
GTA SAMPLE NO: 2
DATE SAMPLED: 9/16/2024
TIME SAMPLED:
DATE RECEIVED: 9/16/2024
TIME RECEIVED: 2:30 PM

MI
SAMPLED BY: JOSHUA GERRIE/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-101D						
	CHLORIDE EPA 300.0	41	10	mg/L (PPM)	KC/TR	9/22/2024	WATER
	TOTAL DISSOLVED SOLIDS EPA 160.1	250	5.0	mg/L (PPM)	TR	9/19/2024	WATER

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
PROJECT NO: 2018100142.01
LOCATION: WEDHOLM MCCAGUE 1-31

GTA PROJECT NO: 091624-3
GTA SAMPLE NO: 3
DATE SAMPLED: 9/16/2024
TIME SAMPLED:
DATE RECEIVED: 9/16/2024
TIME RECEIVED: 2:30 PM

MI
SAMPLED BY: JOSHUA GERRIE/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-104S						
	CHLORIDE EPA 300.0	78	10	mg/L (PPM)	KC/TR	9/22/2024	WATER
	TOTAL DISSOLVED SOLIDS EPA 160.1	330	5.0	mg/L (PPM)	TR	9/19/2024	WATER

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



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COMPANY: LAMBDA ENERGY RESOURCES
PROJECT NO: 2018100142.01
LOCATION: WEDHOLM MCCAGUE 1-31

GTA PROJECT NO: 091624-3
GTA SAMPLE NO: 4
DATE SAMPLED: 9/16/2024
TIME SAMPLED:
DATE RECEIVED: 9/16/2024
TIME RECEIVED: 2:30 PM

MI
SAMPLED BY: JOSHUA GERRIE/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-104D							
	CHLORIDE EPA 300.0	66	10	mg/L (PPM)	KC/TR	9/22/2024	WATER
	TOTAL DISSOLVED SOLIDS EPA 160.1	300	5.0	mg/L (PPM)	TR	9/19/2024	WATER

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
PROJECT NO: 2018100142.01
LOCATION: WEDHOLM MCCAGUE 1-31

GTA PROJECT NO: 091624-3
GTA SAMPLE NO: 5
DATE SAMPLED: 9/16/2024
TIME SAMPLED:
DATE RECEIVED: 9/16/2024
TIME RECEIVED: 2:30 PM

MI
SAMPLED BY: JOSHUA GERRIE/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	630	20	mg/L (PPM)	KC/TR	9/22/2024	WATER

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

COMPANY: LAMBDA ENERGY RESOURCES
 PROJECT NO: 2018100142.01
 LOCATION: WEDHOLM MCCAGUE 1-31

GTA PROJECT NO: 091624-3
 GTA SAMPLE NO: 6
 DATE SAMPLED: 9/16/2024
 TIME SAMPLED:
 DATE RECEIVED: 9/16/2024
 TIME RECEIVED: 2:30 PM

MI
 SAMPLED BY: JOSHUA GERRIE/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	69	10	mg/L (PPM)	KC/TR	9/22/2024	WATER

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

COMPANY: LAMBDA ENERGY RESOURCES
 PROJECT NO: 2018100142.01
 LOCATION: WEDHOLM MCCAGUE 1-31

GTA PROJECT NO: 091624-3
 GTA SAMPLE NO: 7
 DATE SAMPLED: 9/16/2024
 TIME SAMPLED:
 DATE RECEIVED: 9/16/2024
 TIME RECEIVED: 2:30 PM

MI
 SAMPLED BY: JOSHUA GERRIE/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	83	10	mg/L (PPM)	KC/TR	9/22/2024	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
PROJECT NO: 2018100142.01
LOCATION: WEDHOLM MCCAGUE 1-31

GTA PROJECT NO: 091624-3
GTA SAMPLE NO: 8
DATE SAMPLED: 9/16/2024
TIME SAMPLED:
DATE RECEIVED: 9/16/2024
TIME RECEIVED: 2:30 PM

MI
SAMPLED BY: JOSHUA GERRIE/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						
	CHLORIDE EPA 300.0	260	10	mg/L (PPM)	KC/TR	9/22/2024	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>2018100142.01</i>	SITE NAME/ADDRESS <i>Wedholm McCague 1-31</i>	COMPANY/NAME <i>Lambda Energy Resources</i>
SAMPLED BY <i>Joshua Genrie</i>	COMPANY <i>Gosling Czubak</i>	GTA PROJECT # <i>091624-3</i>

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	MW-101s	9-16-24		GW	BTEX+4, Chloride, & TDS
2	MW-101d				
3	MW-104s				
4	MW-104d				
5	MW-105				BTEX+4 & Chloride
6	MW-106				
7	MW-107				
8	Sump				

BILL TO: <i>Lambda Energy Resources</i>	TempRec: <input type="checkbox"/> <i>3.50C</i>	On Ice? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	REPORT TO: <i>Jeff Sims</i>
RELEASED BY <i>[Signature]</i>	DATE/TIME <i>9-16-24/1430</i>	RECEIVED BY <i>[Signature]</i>	DATE/TIME <i>9/16/24 1430</i>

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