



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: 20-121
GTA ProjNo: 062220-2

Site Addr: KALKASKA 26 "G"

Sampled By: STEVEN HEMSTREET/OMPC
Date Rec: 6/22/2020
Time Rec: 9:30 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-4	6/19/2020	11:00 AM	WATER
2	MW-6	6/19/2020	11:00 AM	WATER
3	MW-7	6/19/2020	11:00 AM	WATER
4	MW-8	6/19/2020	11:00 AM	WATER
5	MW-8D	6/19/2020	11:00 AM	WATER
6	MW-11	6/19/2020	11:00 AM	WATER
7	MW-13	6/19/2020	11:00 AM	WATER
8	MW-2	6/19/2020	11:00 AM	WATER
9	MW-12	6/19/2020	11:00 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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Fx: 231-929-0894
SP: 231-590-0291
kirk@gtanalytical.com



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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 20-121
 LOCATION: KALKASKA 26 "G"
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-4

GTA PROJECT NO: 062220-2
 GTA SAMPLE NO: 1
 DATE SAMPLED: 6/19/2020
 TIME SAMPLED: 11:00 AM
 DATE RECEIVED: 6/22/2020
 TIME RECEIVED: 9:30 AM

SAMPLED BY: STEVEN HEMSTREET/OMPC

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		6/22/2020	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: 20-121
 LOCATION: KALKASKA 26 "G"
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-6

GTA PROJECT NO: 062220-2
 GTA SAMPLE NO: 2
 DATE SAMPLED: 6/19/2020
 TIME SAMPLED: 11:00 AM
 DATE RECEIVED: 6/22/2020
 TIME RECEIVED: 9:30 AM

SAMPLED BY: STEVEN HEMSTREET/OMPC

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		6/22/2020	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.
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 20-121
 LOCATION: KALKASKA 26 "G"
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-7

GTA PROJECT NO: 062220-2
 GTA SAMPLE NO: 3
 DATE SAMPLED: 6/19/2020
 TIME SAMPLED: 11:00 AM
 DATE RECEIVED: 6/22/2020
 TIME RECEIVED: 9:30 AM

SAMPLED BY: STEVEN HEMSTREET/OMPC

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		6/22/2020	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	1.2	1.0					
Xylene(Total)	12	3.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 20-121
 LOCATION: KALKASKA 26 "G"
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-8

GTA PROJECT NO: 062220-2
 GTA SAMPLE NO: 4
 DATE SAMPLED: 6/19/2020
 TIME SAMPLED: 11:00 AM
 DATE RECEIVED: 6/22/2020
 TIME RECEIVED: 9:30 AM

SAMPLED BY: STEVEN HEMSTREET/OMPC

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		6/22/2020	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: 20-121
 LOCATION: KALKASKA 26 "G"
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-8D

GTA PROJECT NO: 062220-2
 GTA SAMPLE NO: 5
 DATE SAMPLED: 6/19/2020
 TIME SAMPLED: 11:00 AM
 DATE RECEIVED: 6/22/2020
 TIME RECEIVED: 9:30 AM

SAMPLED BY: STEVEN HEMSTREET/OMPC

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		6/22/2020	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: 20-121
 LOCATION: KALKASKA 26 "G"
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-11

GTA PROJECT NO: 062220-2
 GTA SAMPLE NO: 6
 DATE SAMPLED: 6/19/2020
 TIME SAMPLED: 11:00 AM
 DATE RECEIVED: 6/22/2020
 TIME RECEIVED: 9:30 AM

SAMPLED BY: STEVEN HEMSTREET/OMPC

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		6/22/2020	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.
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 20-121
 LOCATION: KALKASKA 26 "G"
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-13

GTA PROJECT NO: 062220-2
 GTA SAMPLE NO: 7
 DATE SAMPLED: 6/19/2020
 TIME SAMPLED: 11:00 AM
 DATE RECEIVED: 6/22/2020
 TIME RECEIVED: 9:30 AM

SAMPLED BY: STEVEN HEMSTREET/OMPC

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		6/22/2020	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	29	1.0					
Xylene(Total)	730	3.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 20-121
LOCATION: KALKASKA 26 "G"
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-2

GTA PROJECT NO: 062220-2
GTA SAMPLE NO: 8
DATE SAMPLED: 6/19/2020
TIME SAMPLED: 11:00 AM
DATE RECEIVED: 6/22/2020
TIME RECEIVED: 9:30 AM

SAMPLED BY: STEVEN HEMSTREET/OMPC

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		6/22/2020	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.
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 20-121
 LOCATION: KALKASKA 26 "G"
 MI
 SAMPLE MATRIX: WATER
 SAMPLE ID: MW-12

GTA PROJECT NO: 062220-2
 GTA SAMPLE NO: 9
 DATE SAMPLED: 6/19/2020
 TIME SAMPLED: 11:00 AM
 DATE RECEIVED: 6/22/2020
 TIME RECEIVED: 9:30 AM

SAMPLED BY: STEVEN HEMSTREET/OMPC

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		6/22/2020	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	3.9	1.0					
Xylene(Total)	240	3.0					
1,2,4-Trimethylbenzene	63	1.0					
1,3,5-Trimethylbenzene	46	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 20-121
 LOCATION: KALKASKA 26 "G"
 MI
 SAMPLED BY: STEVEN HEMSTREET/OMPC

GTA PROJECT NO: 062220-2
 GTA SAMPLE NO: 2
 DATE SAMPLED: 6/19/2020
 TIME SAMPLED: 11:00 AM
 DATE RECEIVED: 6/22/2020
 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</u>	<u>Sample</u>
SAMPLE ID: MW-6	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	6/23/2020	WATER

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 20-121
LOCATION: KALKASKA 26 "G"
MI
SAMPLED BY: STEVEN HEMSTREET/OMPC

GTA PROJECT NO: 062220-2
GTA SAMPLE NO: 5
DATE SAMPLED: 6/19/2020
TIME SAMPLED: 11:00 AM
DATE RECEIVED: 6/22/2020
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</u>	<u>Sample</u>
SAMPLE ID: MW-8D	CHLORIDE EPA 300.0	15	10	mg/L (PPM)	LV	6/23/2020	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: 062220-2
PROJECT NO: 20-121 GTA SAMPLE NO: 6
LOCATION: KALKASKA 26 "G" DATE SAMPLED: 6/19/2020
TIME SAMPLED: 11:00 AM
DATE RECEIVED: 6/22/2020
TIME RECEIVED: 9:30 AM

MI
SAMPLED BY: STEVEN HEMSTREET/OMPC

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-11	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	6/23/2020	WATER

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 20-121
 LOCATION: KALKASKA 26 "G"

GTA PROJECT NO: 062220-2
 GTA SAMPLE NO: 7

DATE SAMPLED: 6/19/2020
 TIME SAMPLED: 11:00 AM
 DATE RECEIVED: 6/22/2020
 TIME RECEIVED: 9:30 AM

MI
 SAMPLED BY: STEVEN HEMSTREET/OMPC

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-13	ND	10	mg/L (PPM)	LV	6/23/2020	WATER
	CHLORIDE EPA 300.0						

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
PROJECT NO: 20-121
LOCATION: KALKASKA 26 "G"

GTA PROJECT NO: 062220-2
GTA SAMPLE NO: 8
DATE SAMPLED: 6/19/2020
TIME SAMPLED: 11:00 AM
DATE RECEIVED: 6/22/2020
TIME RECEIVED: 9:30 AM

MI
SAMPLED BY: STEVEN HEMSTREET/OMPC

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-2						
	CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	LV	6/23/2020	WATER
	CONDUCTIVITY SM2510-B	360	1.0	uS/cm@25C	LV	6/23/2020	WATER

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 20-121
LOCATION: KALKASKA 26 "G"

GTA PROJECT NO: 062220-2
GTA SAMPLE NO: 9

DATE SAMPLED: 6/19/2020
TIME SAMPLED: 11:00 AM
DATE RECEIVED: 6/22/2020
TIME RECEIVED: 9:30 AM

MI
SAMPLED BY: STEVEN HEMSTREET/OMPC

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-12	ND	10	mg/L (PPM)	LV	6/23/2020	WATER
	CHLORIDE EPA 300.0						

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

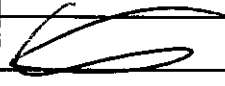

CHAIN OF CUSTODY

PROJECT NUMBER 20-121	SITE NAME/ADDRESS Kalkaska 26 "G"	COMPANY/NAME Lambda
SAMPLED BY Steven Hemstreet	COMPANY Otwell Mawby	GTA PROJECT # 062220-2

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS	
1	MW-4	6/19/20	11:00am	Water	BTEX, chlorides	
2	MW-6	↓	↓	↓	" "	
3	MW-7				" "	
4	MW-8				" "	
5	MW-8D				" "	
6	MW-11				" "	
7	MW-13				" "	
8	MW-2				" "	" Specific Conductivity
9	MW-12				" "	" HIPs

BILL TO: Lambda	REPORT TO: Otwell Mawby Nick Summerland
---------------------------	--

RELEASED BY 	DATE/TIME 6/22/20 8:30	RECEIVED BY 	DATE/TIME 6-22-20 9:30AM
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REQUESTED TAT STANDARD 1 BUSINESS DAY 2 BUSINESS DAYS 3 BUSINESS DAYS