



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:

Site Addr: PARADISE 19 4.29.23

GTA ProjNo: 050223-33

Sampled By: NICK SUMMERLAND/LER
Date Rec: 5/2/2023
Time Rec: 4:30 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	SW-E-7'	5/2/2023	1:15 PM	SOIL
2	SW-N-7'	5/2/2023	1:21 PM	SOIL
3	SW-NE-2'	5/2/2023	1:35 PM	SOIL
4	SW-S-7'	5/2/2023	1:45 PM	SOIL
5	SW-W-7'	5/2/2023	2:12 PM	SOIL
6	SW-SE-7'	5/2/2023	2:21 PM	SOIL
7	FL-1-16'	5/2/2023	2:35 PM	SOIL
8	FL-2-17'	5/2/2023	2:47 PM	SOIL
9	HA-1-19'	5/2/2023	3:00 PM	SOIL

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

GTA PROJECT NO: 050223-33

PROJECT NO:

GTA SAMPLE NO: 1

LOCATION: PARADISE 19 4.29.23

DATE SAMPLED: 5/2/2023

TIME SAMPLED: 1:15 PM

MI

DATE RECEIVED: 5/2/2023

TIME RECEIVED: 4:30 PM

SAMPLE MATRIX: SOIL

SAMPLE ID: SW-E-7'

SAMPLED BY: NICK SUMMERLAND/LER

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

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	50	ug/Kg (PPB)	MR	5/2/2023	5/7/2023	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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:
LOCATION: PARADISE 19 4.29.23
MI
SAMPLE MATRIX: SOIL
SAMPLE ID: SW-N-7

GTA PROJECT NO: 050223-33
GTA SAMPLE NO: 2
DATE SAMPLED: 5/2/2023
TIME SAMPLED: 1:21 PM
DATE RECEIVED: 5/2/2023
TIME RECEIVED: 4:30 PM

SAMPLED BY: NICK SUMMERLAND/LER
**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

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	50	ug/Kg (PPB)	MR	5/2/2023	5/7/2023	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO:

LOCATION: PARADISE 19 4.29.23

MI

SAMPLE MATRIX: SOIL
 SAMPLE ID: SW-NE-2'

GTA PROJECT NO: 050223-33

GTA SAMPLE NO: 3

DATE SAMPLED: 5/2/2023

TIME SAMPLED: 1:35 PM

DATE RECEIVED: 5/2/2023

TIME RECEIVED: 4:30 PM

SAMPLED BY: NICK SUMMERLAND/LER

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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	50	ug/Kg (PPB)	MR	5/2/2023	5/7/2023	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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:
 LOCATION: PARADISE 19 4.29.23
 MI
 SAMPLE MATRIX: SOIL
 SAMPLE ID: SW-S-7'

GTA PROJECT NO: 050223-33
 GTA SAMPLE NO: 4
 DATE SAMPLED: 5/2/2023
 TIME SAMPLED: 1:45 PM
 DATE RECEIVED: 5/2/2023
 TIME RECEIVED: 4:30 PM

SAMPLED BY: NICK SUMMERLAND/LER
 **THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

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	50	ug/Kg (PPB)	MR	5/2/2023	5/7/2023	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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:
 LOCATION: PARADISE 19 4.29.23
 MI
 SAMPLE MATRIX: SOIL
 SAMPLE ID: SW-W-7'

GTA PROJECT NO: 050223-33
 GTA SAMPLE NO: 5
 DATE SAMPLED: 5/2/2023
 TIME SAMPLED: 2:12 PM
 DATE RECEIVED: 5/2/2023
 TIME RECEIVED: 4:30 PM

SAMPLED BY: NICK SUMMERLAND/LER
 **THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

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	50	ug/Kg (PPB)	MR	5/2/2023	5/7/2023	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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:
LOCATION: PARADISE 19 4.29.23
MI
SAMPLE MATRIX: SOIL
SAMPLE ID: SW-SE-7'

GTA PROJECT NO: 050223-33
GTA SAMPLE NO: 6
DATE SAMPLED: 5/2/2023
TIME SAMPLED: 2:21 PM
DATE RECEIVED: 5/2/2023
TIME RECEIVED: 4:30 PM

SAMPLED BY: NICK SUMMERLAND/LER
**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

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	50	ug/Kg (PPB)	MR	5/2/2023	5/7/2023	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 050223-33

PROJECT NO:

GTA SAMPLE NO: 7

LOCATION: PARADISE 19 4.29.23

DATE SAMPLED: 5/2/2023

TIME SAMPLED: 2:35 PM

MI

DATE RECEIVED: 5/2/2023

TIME RECEIVED: 4:30 PM

SAMPLE MATRIX: SOIL

SAMPLED BY: NICK SUMMERLAND/LER

SAMPLE ID: FL-1-16'

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

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	50	ug/Kg (PPB)	MR	5/2/2023	5/7/2023	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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:
 LOCATION: PARADISE 19 4.29.23
 MI
 SAMPLE MATRIX: SOIL
 SAMPLE ID: FL-2-17'

GTA PROJECT NO: 050223-33
 GTA SAMPLE NO: 8
 DATE SAMPLED: 5/2/2023
 TIME SAMPLED: 2:47 PM
 DATE RECEIVED: 5/2/2023
 TIME RECEIVED: 4:30 PM

SAMPLED BY: NICK SUMMERLAND/LER
 **THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

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	50	ug/Kg (PPB)	MR	5/2/2023	5/7/2023	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 050223-33

PROJECT NO:

GTA SAMPLE NO: 9

LOCATION: PARADISE 19 4.29.23

DATE SAMPLED: 5/2/2023

TIME SAMPLED: 3:00 PM

DATE RECEIVED: 5/2/2023

TIME RECEIVED: 4:30 PM

MI

SAMPLE MATRIX: SOIL
 SAMPLE ID: HA-1-19'

SAMPLED BY: NICK SUMMERLAND/LER

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

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	1,500	50	ug/Kg (PPB)	MR	5/2/2023	5/7/2023	EPA 5035A
Toluene	1,800	50					
Ethylbenzene	150	50					
Xylene(Total)	360	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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: 050223-33

PROJECT NO:

GTA SAMPLE NO: 1

LOCATION: PARADISE 19 4.29.23

DATE SAMPLED: 5/2/2023

TIME SAMPLED: 1:15 PM

DATE RECEIVED: 5/2/2023

TIME RECEIVED: 4:30 PM

MI

SAMPLED BY: NICK SUMMERLAND/LER

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: SW-E-7' CHLORIDE EPA 300.0	ND	91	mg/Kg (PPM)	KC/AS	5/5/2023	SOIL

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: 050223-33

PROJECT NO:

GTA SAMPLE NO: 3

LOCATION: PARADISE 19 4.29.23

DATE SAMPLED: 5/2/2023

TIME SAMPLED: 1:35 PM

DATE RECEIVED: 5/2/2023

TIME RECEIVED: 4:30 PM

MI

SAMPLED BY: NICK SUMMERLAND/LER

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: SW-NE-2' CHLORIDE EPA 300.0	170	95	mg/Kg (PPM)	KC/AS	5/5/2023	SOIL

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: 050223-33

PROJECT NO:

GTA SAMPLE NO: 5

LOCATION: PARADISE 19 4.29.23

DATE SAMPLED: 5/2/2023

TIME SAMPLED: 2:12 PM

DATE RECEIVED: 5/2/2023

TIME RECEIVED: 4:30 PM

MI

SAMPLED BY: NICK SUMMERLAND/LER

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: SW-W-7' CHLORIDE EPA 300.0	ND	95	mg/Kg (PPM)	KC/AS	5/5/2023	SOIL

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: 050223-33

PROJECT NO:

GTA SAMPLE NO: 7

LOCATION: PARADISE 19 4.29.23

DATE SAMPLED: 5/2/2023

TIME SAMPLED: 2:35 PM

DATE RECEIVED: 5/2/2023

TIME RECEIVED: 4:30 PM

MI

SAMPLED BY: NICK SUMMERLAND/LER

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: FL-1-16' CHLORIDE EPA 300.0	420	97	mg/Kg (PPM)	KC/AS	5/5/2023	SOIL

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

NAME:
PROJECT NO:

GTA PROJECT NO: 050223-
SAMPLED BY: NICK SUMMERLAND/LER

DATE SAMPLED: 5/2/2023

LOCATION: PARADISE 19 4.29.23

SAMPLE MATRIX: SOIL

DATE RECEIVED: 5/2/2023
TIME RECEIVED: 4:30 PM

MI

MOISTURE

<u>No:</u> <u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
SAMPLE ID: SW-E-7' % MOISTURE EPA 3550C	4.9	0.10	% OF SAMPLE	AS	5/2/2023
SAMPLE ID: SW-N-7' % MOISTURE EPA 3550C	5.8	0.10	% OF SAMPLE	AS	5/2/2023
SAMPLE ID: SW-NE-2' % MOISTURE EPA 3550C	5.0	0.10	% OF SAMPLE	AS	5/2/2023
SAMPLE ID: SW-S-7' % MOISTURE EPA 3550C	3.9	0.10	% OF SAMPLE	AS	5/2/2023
SAMPLE ID: SW-W-7' % MOISTURE EPA 3550C	3.5	0.10	% OF SAMPLE	AS	5/2/2023
SAMPLE ID: SW-SE-7' % MOISTURE EPA 3550C	4.8	0.10	% OF SAMPLE	AS	5/2/2023
SAMPLE ID: FL-1-16' % MOISTURE EPA 3550C	4.8	0.10	% OF SAMPLE	AS	5/2/2023
SAMPLE ID: FL-2-17' % MOISTURE EPA 3550C	4.9	0.10	% OF SAMPLE	AS	5/2/2023
SAMPLE ID: HA-1-19' % MOISTURE EPA 3550C	11	0.10	% OF SAMPLE	AS	5/2/2023

CHAIN OF CUSTODY

PROJECT NUMBER	SITE NAME/ADDRESS	COMPANY/NAME
	Paradise 19 4.29.23	Lambda Energy
SAMPLED BY	COMPANY	GTA PROJECT #
N Summerland	Lambda	050223-33

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	SW-E-7'	5/2/2023	1:15P	Soil	BTEX + 4 / Chloride
2	SW-N-7'	↓	1:21P	↓	↓
3	SW-NE-2'		1:35P		
4	SW-S-7'		1:45P		
5	SW-W-7'		2:12P		
6	SW-SE-7'		2:21P		
7	FL-1-16'		2:35P		
8	FL-2-17'		2:47P		
9	HA-1-19'		3:00P		

BILL TO:	TempRec: <input type="checkbox"/>	On Ice? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	REPORT TO:
Lambda	2.1°C		N Summerland

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[Signature]	5-2-23 4:30P	[Signature]	5/2/23 4:30

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