

**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: 20-127

GTA ProjNo: 072222-10

Site Addr: CHARLTON 12

Sampled By: JY/OMPC

Date Rec: 7/22/2022

Time Rec: 12:35 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	HA-1 @ 1'	7/18/2022	10:48 AM	SOIL
2	HA-2 @ 2'	7/20/2022	10:40 AM	SOIL
3	HA-2 @ 4'	7/20/2022	11:10 AM	SOIL
4	HA-2 @ 6'	7/20/2022	11:40 AM	SOIL
5	HA-2 @ 8'	7/20/2022	12:15 PM	SOIL
6	HA-4 @ 2'	7/20/2022	1:30 PM	SOIL
7	HA-4 @ 4'	7/20/2022	2:20 PM	SOIL
8	HA-4 @ 6'	7/20/2022	2:50 PM	SOIL
9	HA-5 @ 2'	7/20/2022	3:45 PM	SOIL
10	HA-5 @ 4'	7/20/2022	4:35 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
Ph: 231-929-0905
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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 20-127

LOCATION: CHARLTON 12

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: HA-1 @ 1'

GTA PROJECT NO: 072222-10

GTA SAMPLE NO: 1

DATE SAMPLED: 7/18/2022

TIME SAMPLED: 10:48 AM

DATE RECEIVED: 7/22/2022

TIME RECEIVED: 12:35 PM

SAMPLED BY: JY/OMPC

**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		7/18/2022	7/26/2022	EPA 5035A
Toluene	210	50					
Ethylbenzene	210	50					
Xylene(Total)	5,800	150					
1,2,4-Trimethylbenzene	4,900	50					
1,3,5-Trimethylbenzene	2,300	50					
Naphthalene	ND	250					
2-Methylnaphthalene	830	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

PROJECT NO: 20-127

LOCATION: CHARLTON 12

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: HA-2 @ 2'

GTA PROJECT NO: 072222-10

GTA SAMPLE NO: 2

DATE SAMPLED: 7/20/2022

TIME SAMPLED: 10:40 AM

DATE RECEIVED: 7/22/2022

TIME RECEIVED: 12:35 PM

SAMPLED BY: JY/OMPC

**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	1,600	50	ug/Kg (PPB)	MR	7/20/2022	7/26/2022	EPA 5035A
Toluene	11,000	50					
Ethylbenzene	2,400	50					
Xylene(Total)	12,000	150					
1,2,4-Trimethylbenzene	4,800	50					
1,3,5-Trimethylbenzene	2,000	50					
Naphthalene	ND	250					
2-Methylnaphthalene	510	250					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 20-127
LOCATION: CHARLTON 12

MI

SAMPLE MATRIX: SOIL
SAMPLE ID: HA-2 @ 4'

GTA PROJECT NO: 072222-10
GTA SAMPLE NO: 3

DATE SAMPLED: 7/20/2022
TIME SAMPLED: 11:10 AM
DATE RECEIVED: 7/22/2022
TIME RECEIVED: 12:35 PM

SAMPLED BY: JY/OMPC

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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	14,000	1,000	ug/Kg (PPB)	MR	7/20/2022	7/26/2022	EPA 5035A
Toluene	82,000	1,000					
Ethylbenzene	12,000	1,000					
Xylene(Total)	62,000	3,000					
1,2,4-Trimethylbenzene	22,000	1,000					
1,3,5-Trimethylbenzene	7,500	1,000					
Naphthalene	ND	500					
2-Methylnaphthalene	1,500	500					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 20-127
LOCATION: CHARLTON 12

MI

SAMPLE MATRIX: SOIL
SAMPLE ID: HA-2 @ 6'

GTA PROJECT NO: 072222-10
GTA SAMPLE NO: 4

DATE SAMPLED: 7/20/2022
TIME SAMPLED: 11:40 AM
DATE RECEIVED: 7/22/2022
TIME RECEIVED: 12:35 PM

SAMPLED BY: JY/OMPC

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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	19,000	50	ug/Kg (PPB)	MR	7/20/2022	7/26/2022	EPA 5035A
Toluene	66,000	50					
Ethylbenzene	13,000	50					
Xylene(Total)	51,000	150					
1,2,4-Trimethylbenzene	20,000	50					
1,3,5-Trimethylbenzene	7,600	50					
Naphthalene	440	250					
2-Methylnaphthalene	2,200	250					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 20-127
LOCATION: CHARLTON 12

MI

SAMPLE MATRIX: SOIL
SAMPLE ID: HA-2 @ 8'

GTA PROJECT NO: 072222-10
GTA SAMPLE NO: 5

DATE SAMPLED: 7/20/2022
TIME SAMPLED: 12:15 PM
DATE RECEIVED: 7/22/2022
TIME RECEIVED: 12:35 PM

SAMPLED BY: JY/OMPC

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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	2,800	100	ug/Kg (PPB)	MR	7/20/2022	7/26/2022	EPA 5035A
Toluene	14,000	100					
Ethylbenzene	2,400	100					
Xylene(Total)	13,000	300					
1,2,4-Trimethylbenzene	5,200	100					
1,3,5-Trimethylbenzene	1,700	100					
Naphthalene	ND	500					
2-Methylnaphthalene	ND	500					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 20-127
LOCATION: CHARLTON 12

MI

SAMPLE MATRIX: SOIL
SAMPLE ID: HA-4 @ 2'

GTA PROJECT NO: 072222-10
GTA SAMPLE NO: 6

DATE SAMPLED: 7/20/2022
TIME SAMPLED: 1:30 PM
DATE RECEIVED: 7/22/2022
TIME RECEIVED: 12:35 PM

SAMPLED BY: JY/OMPC

**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	650	50	ug/Kg (PPB)	MR	7/20/2022	7/26/2022	EPA 5035A
Toluene	3,000	50					
Ethylbenzene	450	50					
Xylene(Total)	2,100	150					
1,2,4-Trimethylbenzene	820	50					
1,3,5-Trimethylbenzene	300	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 20-127

LOCATION: CHARLTON 12

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: HA-4 @ 4'

GTA PROJECT NO: 072222-10

GTA SAMPLE NO: 7

DATE SAMPLED: 7/20/2022

TIME SAMPLED: 2:20 PM

DATE RECEIVED: 7/22/2022

TIME RECEIVED: 12:35 PM

SAMPLED BY: JY/OMPC

**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	82	50	ug/Kg (PPB)	MR	7/20/2022	7/26/2022	EPA 5035A
Toluene	350	50					
Ethylbenzene	79	50					
Xylene(Total)	340	150					
1,2,4-Trimethylbenzene	160	50					
1,3,5-Trimethylbenzene	77	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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PROJECT NO: 20-127

LOCATION: CHARLTON 12

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: HA-4 @ 6'

GTA PROJECT NO: 072222-10

GTA SAMPLE NO: 8

DATE SAMPLED: 7/20/2022

TIME SAMPLED: 2:50 PM

DATE RECEIVED: 7/22/2022

TIME RECEIVED: 12:35 PM

SAMPLED BY: JY/OMPC

**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	210	50	ug/Kg (PPB)	MR	7/20/2022	7/26/2022	EPA 5035A
Toluene	1,000	50					
Ethylbenzene	170	50					
Xylene(Total)	740	150					
1,2,4-Trimethylbenzene	440	50					
1,3,5-Trimethylbenzene	190	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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PROJECT NO: 20-127

LOCATION: CHARLTON 12

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: HA-5 @ 2'

GTA PROJECT NO: 072222-10

GTA SAMPLE NO: 9

DATE SAMPLED: 7/20/2022

TIME SAMPLED: 3:45 PM

DATE RECEIVED: 7/22/2022

TIME RECEIVED: 12:35 PM

SAMPLED BY: JY/OMPC

**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	27,000	870	ug/Kg (PPB)	MR	7/20/2022	7/27/2022	EPA 5035A
Toluene	140,000	870					
Ethylbenzene	22,000	870					
Xylene(Total)	120,000	2,600					
1,2,4-Trimethylbenzene	41,000	870					
1,3,5-Trimethylbenzene	14,000	870					
Naphthalene	750	250					
2-Methylnaphthalene	3,100	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 20-127

LOCATION: CHARLTON 12

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: HA-5 @ 4'

GTA PROJECT NO: 072222-10

GTA SAMPLE NO: 10

DATE SAMPLED: 7/20/2022

TIME SAMPLED: 4:35 PM

DATE RECEIVED: 7/22/2022

TIME RECEIVED: 12:35 PM

SAMPLED BY: JY/OMPC

**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	4,300	97	ug/Kg (PPB)	MR	7/20/2022	7/27/2022	EPA 5035A
Toluene	39,000	970					
Ethylbenzene	6,600	97					
Xylene(Total)	41,000	2,900					
1,2,4-Trimethylbenzene	18,000	970					
1,3,5-Trimethylbenzene	5,300	97					
Naphthalene	380	250					
2-Methylnaphthalene	1,700	250					

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 072222-10

PROJECT NO: 20-127

GTA SAMPLE NO: 1

LOCATION: CHARLTON 12

DATE SAMPLED: 7/18/2022

TIME SAMPLED: 10:48 AM

DATE RECEIVED: 7/22/2022

TIME RECEIVED: 12:35 PM

SAMPLED BY: MI
JY/OMPC**SAMPLE ANALYSIS****No: Analysis**

SAMPLE ID: HA-1 @ 1'

CHLORIDE EPA 300.0

Concentration**LOD****Units****Analyst****Date Completed****Sample Matrix**

ND

100

mg/Kg (PPM) KC/AS

7/26/2022

SOIL

ND = NOT DETECTED, RESULT < LOD

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s.u. = STANDARD pH UNITS REPORTED AT 25 C

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

NAME:

PROJECT NO: 20-127

GTA PROJECT NO: 072222-
SAMPLED BY: JY/OMPC

DATE SAMPLED: 7/18/2022

LOCATION: CHARLTON 12

SAMPLE MATRIX: SOIL

DATE RECEIVED: 7/22/2022
TIME RECEIVED: 12:35 PM

MI

MOISTURE**No: Analysis**

SAMPLE ID: HA-1 @ 1'

% MOISTURE EPA 3550C

<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Completed</u>
11	0.050	% OF SAMPLE	AS	7/22/2022

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PROJECT NO: 20-127

GTA PROJECT NO: 072222-
SAMPLED BY: JY/OMPC

DATE SAMPLED: 7/20/2022

LOCATION: CHARLTON 12

SAMPLE MATRIX: SOIL

DATE RECEIVED: 7/22/2022
TIME RECEIVED: 12:35 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: HA-2 @ 2'	% MOISTURE EPA 3550C	16	0.050	% OF SAMPLE	AS	7/22/2022
SAMPLE ID: HA-2 @ 4'	% MOISTURE EPA 3550C	16	0.050	% OF SAMPLE	AS	7/22/2022
SAMPLE ID: HA-2 @ 6'	% MOISTURE EPA 3550C	9.3	0.050	% OF SAMPLE	AS	7/22/2022
SAMPLE ID: HA-2 @ 8'	% MOISTURE EPA 3550C	12	0.050	% OF SAMPLE	AS	7/22/2022
SAMPLE ID: HA-4 @ 2'	% MOISTURE EPA 3550C	12	0.050	% OF SAMPLE	AS	7/22/2022
SAMPLE ID: HA-4 @ 4'	% MOISTURE EPA 3550C	13	0.050	% OF SAMPLE	AS	7/22/2022
SAMPLE ID: HA-4 @ 6'	% MOISTURE EPA 3550C	12	0.050	% OF SAMPLE	AS	7/22/2022
SAMPLE ID: HA-5 @ 2'	% MOISTURE EPA 3550C	12	0.050	% OF SAMPLE	AS	7/22/2022
SAMPLE ID: HA-5 @ 4'	% MOISTURE EPA 3550C	11	0.050	% OF SAMPLE	AS	7/22/2022

INDEPENDENT TESTING LAB

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CHAIN OF CUSTODY

PROJECT NUMBER 20-127	SITE NAME/ADDRESS Charlton 12	COMPANY/NAME Lambda
SAMPLED BY JY	COMPANY DMPC	GTA PROJECT # 072222-10

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	HA-1 @ 1'	7-18-22	1048	Soil	HIPs + Chlorides
2	HA-2 @ 2'	7-20-22	1040		HIPs. HOLD CHLORIDES
3	HA-2 @ 4'		1110		
4	HA-2 @ 6'		1140		
5	HA-2 @ 8'		1215		
6	HA-4 @ 2'		1330		
7	HA-4 @ 4'		1420		
8	HA-4 @ 6'		1450		
9	HA-5 @ 2'		1545		
10	HA-5 @ 4'		1635		

BILL TO:	TempRec: ☐ 4.0 °C	On Ice? ☒ Y ☐ N	REPORT TO: Don Burton
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RELEASED BY [Signature]	DATE/TIME 7-22-22 1235	RECEIVED BY [Signature]	DATE/TIME 7-22-22 12:35 PM
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REQUESTED TAT ☒ STANDARD ☐ 1 BUSINESS DAY ☐ 2 BUSINESS DAYS ☐ 3 BUSINESS DAYS