

**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: 080822-5

Site Addr: CHARLTON 12

Sampled By: STEVEN HEMSTREET/OMPC

Date Rec: 8/8/2022

Time Rec: 12:00 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	HA-1 @ 4.5'	8/5/2022	10:00 AM	SOIL
2	HA-3 @ 2'	8/5/2022	11:00 AM	SOIL
3	HA-3 @ 4'	8/5/2022	12:45 PM	SOIL
4	HA-3 @ 6'	8/5/2022	1:30 PM	SOIL
5	HA-5R @ 2'	8/5/2022	10:30 AM	SOIL
6	HA-5R @ 4'	8/5/2022	11:00 AM	SOIL
7	HA-5R @ 6'	8/5/2022	11:30 AM	SOIL
8	HA-5R @ 7'	8/5/2022	12:15 PM	SOIL
9	HA-6 @ 2'	8/5/2022	9:30 AM	SOIL
10	HA-6 @ 4'	8/5/2022	10:00 AM	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
Fx: 231-929-0894
SP: 231-590-0291
kirk@gtanalytical.com

**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

PROJECT NO: 20-127

LOCATION: CHARLTON 12

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: HA-1 @ 4.5'

GTA PROJECT NO: 080822-5

GTA SAMPLE NO: 1

DATE SAMPLED: 8/5/2022

TIME SAMPLED: 10:00 AM

DATE RECEIVED: 8/8/2022

TIME RECEIVED: 12:00 PM

SAMPLED BY: STEVEN HEMSTREET/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	1,100	50	ug/Kg (PPB) MR		8/5/2022	8/10/2022	EPA 5035A
Toluene	1,000	50					
Ethylbenzene	310	50					
Xylene(Total)	1,200	150					
1,2,4-Trimethylbenzene	480	50					
1,3,5-Trimethylbenzene	160	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

**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

PROJECT NO: 20-127

LOCATION: CHARLTON 12

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: HA-3 @ 2'

GTA PROJECT NO: 080822-5

GTA SAMPLE NO: 2

DATE SAMPLED: 8/5/2022

TIME SAMPLED: 11:00 AM

DATE RECEIVED: 8/8/2022

TIME RECEIVED: 12:00 PM

SAMPLED BY: STEVEN HEMSTREET/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		8/5/2022	8/10/2022	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

**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

PROJECT NO: 20-127

LOCATION: CHARLTON 12

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: HA-3 @ 4'

GTA PROJECT NO: 080822-5

GTA SAMPLE NO: 3

DATE SAMPLED: 8/5/2022

TIME SAMPLED: 12:45 PM

DATE RECEIVED: 8/8/2022

TIME RECEIVED: 12:00 PM

SAMPLED BY: STEVEN HEMSTREET/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		8/5/2022	8/10/2022	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

**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

PROJECT NO: 20-127

LOCATION: CHARLTON 12

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: HA-3 @ 6'

GTA PROJECT NO: 080822-5

GTA SAMPLE NO: 4

DATE SAMPLED: 8/5/2022

TIME SAMPLED: 1:30 PM

DATE RECEIVED: 8/8/2022

TIME RECEIVED: 12:00 PM

SAMPLED BY: STEVEN HEMSTREET/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		8/5/2022	8/10/2022	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

**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

PROJECT NO: 20-127

LOCATION: CHARLTON 12

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: HA-5R @ 2'

GTA PROJECT NO: 080822-5

GTA SAMPLE NO: 5

DATE SAMPLED: 8/5/2022

TIME SAMPLED: 10:30 AM

DATE RECEIVED: 8/8/2022

TIME RECEIVED: 12:00 PM

SAMPLED BY: STEVEN HEMSTREET/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	11,000	50	ug/Kg (PPB) MR		8/5/2022	8/10/2022	EPA 5035A
Toluene	47,000	50					
Ethylbenzene	5,100	50					
Xylene(Total)	45,000	150					
1,2,4-Trimethylbenzene	18,000	50					
1,3,5-Trimethylbenzene	6,900	50					
Naphthalene	370	250					
2-Methylnaphthalene	2,100	250					

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

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

**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

PROJECT NO: 20-127
LOCATION: CHARLTON 12

MI

SAMPLE MATRIX: SOIL
SAMPLE ID: HA-5R @ 4'GTA PROJECT NO: 080822-5
GTA SAMPLE NO: 6DATE SAMPLED: 8/5/2022
TIME SAMPLED: 11:00 AM
DATE RECEIVED: 8/8/2022
TIME RECEIVED: 12:00 PM

SAMPLED BY: STEVEN HEMSTREET/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	3,500	50	ug/Kg (PPB) MR		8/5/2022	8/10/2022	EPA 5035A
Toluene	16,000	50					
Ethylbenzene	3,000	50					
Xylene(Total)	16,000	150					
1,2,4-Trimethylbenzene	5,900	50					
1,3,5-Trimethylbenzene	2,000	50					
Naphthalene	ND	250					
2-Methylnaphthalene	640	250					

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

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

**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

PROJECT NO: 20-127

LOCATION: CHARLTON 12

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: HA-5R @ 6'

GTA PROJECT NO: 080822-5

GTA SAMPLE NO: 7

DATE SAMPLED: 8/5/2022

TIME SAMPLED: 11:30 AM

DATE RECEIVED: 8/8/2022

TIME RECEIVED: 12:00 PM

SAMPLED BY: STEVEN HEMSTREET/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	1,700	50	ug/Kg (PPB) MR		8/5/2022	8/10/2022	EPA 5035A
Toluene	7,900	50					
Ethylbenzene	1,400	50					
Xylene(Total)	6,800	150					
1,2,4-Trimethylbenzene	2,500	50					
1,3,5-Trimethylbenzene	810	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: 20-127
LOCATION: CHARLTON 12

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: HA-5R @ 7'

GTA PROJECT NO: 080822-5

GTA SAMPLE NO: 8

DATE SAMPLED: 8/5/2022

TIME SAMPLED: 12:15 PM

DATE RECEIVED: 8/8/2022

TIME RECEIVED: 12:00 PM

SAMPLED BY: STEVEN HEMSTREET/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	1,000	50	ug/Kg (PPB) MR		8/5/2022	8/10/2022	EPA 5035A
Toluene	5,700	50					
Ethylbenzene	1,300	50					
Xylene(Total)	6,400	150					
1,2,4-Trimethylbenzene	2,900	50					
1,3,5-Trimethylbenzene	930	50					
Naphthalene	ND	250					
2-Methylnaphthalene	260	250					

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

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

**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

PROJECT NO: 20-127

LOCATION: CHARLTON 12

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: HA-6 @ 2'

GTA PROJECT NO: 080822-5

GTA SAMPLE NO: 9

DATE SAMPLED: 8/5/2022

TIME SAMPLED: 9:30 AM

DATE RECEIVED: 8/8/2022

TIME RECEIVED: 12:00 PM

SAMPLED BY: STEVEN HEMSTREET/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	280	50	ug/Kg (PPB) MR		8/5/2022	8/10/2022	EPA 5035A
Toluene	1,500	50					
Ethylbenzene	150	50					
Xylene(Total)	3,000	150					
1,2,4-Trimethylbenzene	1,700	50					
1,3,5-Trimethylbenzene	710	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

**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

PROJECT NO: 20-127

LOCATION: CHARLTON 12

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: HA-6 @ 4'

GTA PROJECT NO: 080822-5

GTA SAMPLE NO: 10

DATE SAMPLED: 8/5/2022

TIME SAMPLED: 10:00 AM

DATE RECEIVED: 8/8/2022

TIME RECEIVED: 12:00 PM

SAMPLED BY: STEVEN HEMSTREET/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	1,000	50	ug/Kg (PPB) MR		8/5/2022	8/10/2022	EPA 5035A
Toluene	1,600	50					
Ethylbenzene	260	50					
Xylene(Total)	1,000	150					
1,2,4-Trimethylbenzene	290	50					
1,3,5-Trimethylbenzene	100	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

**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
PROJECT NO: 20-127
LOCATION: CHARLTON 12
MI
SAMPLED BY: STEVEN HEMSTREET/OMPC

GTA PROJECT NO: 080822-5
GTA SAMPLE NO: 1
DATE SAMPLED: 8/5/2022
TIME SAMPLED: 10:00 AM
DATE RECEIVED: 8/8/2022
TIME RECEIVED: 12:00 PM

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: HA-1 @ 4.5' CHLORIDE EPA 300.0	ND	120	mg/Kg (PPM)	KC/TR	8/9/2022	SOIL

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

**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:

PROJECT NO: 20-127

GTA PROJECT NO: 080822-

SAMPLED BY: STEVEN HEMSTREET/OMPC

DATE SAMPLED: 8/5/2022

LOCATION: CHARLTON 12

SAMPLE MATRIX: SOIL

DATE RECEIVED: 8/8/2022

TIME RECEIVED: 12:00 PM

MI

MOISTURE

No:	Analysis	Concentration	LOD	Units	Analyst	Date Completed
SAMPLE ID: HA-1 @ 4.5'	% MOISTURE EPA 3550C	14	0.050	% OF SAMPLE	TR	8/9/2022
SAMPLE ID: HA-3 @ 2'	% MOISTURE EPA 3550C	12	0.050	% OF SAMPLE	TR	8/9/2022
SAMPLE ID: HA-3 @ 4'	% MOISTURE EPA 3550C	10	0.050	% OF SAMPLE	TR	8/9/2022
SAMPLE ID: HA-3 @ 6'	% MOISTURE EPA 3550C	12	0.050	% OF SAMPLE	TR	8/9/2022
SAMPLE ID: HA-5R @ 2'	% MOISTURE EPA 3550C	10	0.050	% OF SAMPLE	TR	8/9/2022
SAMPLE ID: HA-5R @ 4'	% MOISTURE EPA 3550C	10	0.050	% OF SAMPLE	TR	8/9/2022
SAMPLE ID: HA-5R @ 6'	% MOISTURE EPA 3550C	10	0.050	% OF SAMPLE	TR	8/9/2022
SAMPLE ID: HA-5R @ 7'	% MOISTURE EPA 3550C	11	0.050	% OF SAMPLE	TR	8/9/2022
SAMPLE ID: HA-6 @ 2'	% MOISTURE EPA 3550C	13	0.050	% OF SAMPLE	TR	8/9/2022
SAMPLE ID: HA-6 @ 4'	% MOISTURE EPA 3550C	11	0.050	% OF SAMPLE	TR	8/9/2022

INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

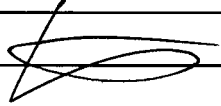
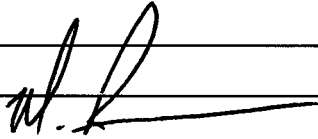
CHAIN OF CUSTODY

PROJECT NUMBER 20-127	SITE NAME/ADDRESS Charlton 12	COMPANY/NAME Lambda
SAMPLED BY Steven Hemstreet	COMPANY Otwell Mawby	GTA PROJECT # 080822-5

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	HA-1@4.5'	8/5/22	10:00	Soil	HIPs, Chlorides
2	HA-3@2'		11:00		HIPs, Hold Chlorides
3	HA-3@4'		12:45		
4	HA-3@6'		13:30		
5	HA-5R@2'		10:30		
6	HA-5R@4'		11:00		
7	HA-5R@6'		11:30		
8	HA-5R@7'		12:15		
9	HA-6@2'		9:30		
10	HA-6@4'		10:00		

BILL TO: Lambda	TempRec: ☐ 1.7°C	On Ice? ☒ Y ☐ N	REPORT TO: Dan Barton Nick Summerland
--------------------	--	--	---

RELEASED BY 	DATE/TIME 8/8/22 11:55	RECEIVED BY 	DATE/TIME 8-8-22 12:00P
---	---------------------------	---	----------------------------

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