

**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: GOOSE CREEK

GTA ProjNo: 062519-16

Sampled By: NICK SUMMERLAND/LAMBDA
Date Rec: 6/25/2019
Time Rec: 4:05 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	HA-1 13'6"	6/24/2019	3:12 PM	SOIL
2	FS-1 5'6"	6/24/2019	3:17 PM	SOIL
3	HA-S 4'	6/24/2019	3:42 PM	SOIL
4	HA-W 4'	6/24/2019	3:56 PM	SOIL
5	HA-NW 4'	6/24/2019	4:00 PM	SOIL
6	HA-N 4'	6/24/2019	4:12 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 L Chase

Kirk L. Chase/Chemist
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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 062519-16

PROJECT NO:

GTA SAMPLE NO: 1

LOCATION: GOOSE CREEK

DATE SAMPLED: 6/24/2019

TIME SAMPLED: 3:12 PM

MI

DATE RECEIVED: 6/25/2019

TIME RECEIVED: 4:05 PM

SAMPLE MATRIX: SOIL

SAMPLE ID: HA-1 13'6"

SAMPLED BY: NICK SUMMERLAND/LAMBDA

**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	28,000	500	ug/Kg (PPB)	MR	6/24/2019	6/27/2019	EPA 5035A
Toluene	130,000	500					
Ethylbenzene	2,600	50					
Xylene(Total)	7,100	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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PROJECT NO:

LOCATION: GOOSE CREEK

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: FS-1 5'6"

GTA PROJECT NO: 062519-16

GTA SAMPLE NO: 2

DATE SAMPLED: 6/24/2019

TIME SAMPLED: 3:17 PM

DATE RECEIVED: 6/25/2019

TIME RECEIVED: 4:05 PM

SAMPLED BY: NICK SUMMERLAND/LAMBDA

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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	66,000	500	ug/Kg (PPB)	MR	6/24/2019	6/27/2019	EPA 5035A
Toluene	250,000	500					
Ethylbenzene	4,800	50					
Xylene(Total)	15,000	1,100					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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PROJECT NO:

LOCATION: GOOSE CREEK

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: HA-S 4'

GTA PROJECT NO: 062519-16

GTA SAMPLE NO: 3

DATE SAMPLED: 6/24/2019

TIME SAMPLED: 3:42 PM

DATE RECEIVED: 6/25/2019

TIME RECEIVED: 4:05 PM

SAMPLED BY: NICK SUMMERLAND/LAMBDA

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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	270	50	ug/Kg (PPB)	MR	6/24/2019	6/27/2019	EPA 5035A
Toluene	560	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					

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PROJECT NO:

LOCATION: GOOSE CREEK

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: HA-W 4'

GTA PROJECT NO: 062519-16

GTA SAMPLE NO: 4

DATE SAMPLED: 6/24/2019

TIME SAMPLED: 3:56 PM

DATE RECEIVED: 6/25/2019

TIME RECEIVED: 4:05 PM

SAMPLED BY: NICK SUMMERLAND/LAMBDA

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<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	6/24/2019	6/27/2019	EPA 5035A
Toluene	340	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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PROJECT NO:

LOCATION: GOOSE CREEK

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: HA-NW 4'

GTA PROJECT NO: 062519-16

GTA SAMPLE NO: 5

DATE SAMPLED: 6/24/2019

TIME SAMPLED: 4:00 PM

DATE RECEIVED: 6/25/2019

TIME RECEIVED: 4:05 PM

SAMPLED BY: NICK SUMMERLAND/LAMBDA

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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	270	50	ug/Kg (PPB)	MR	6/24/2019	6/27/2019	EPA 5035A
Toluene	560	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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PROJECT NO:

LOCATION: GOOSE CREEK

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: HA-N 4'

GTA PROJECT NO: 062519-16

GTA SAMPLE NO: 6

DATE SAMPLED: 6/24/2019

TIME SAMPLED: 4:12 PM

DATE RECEIVED: 6/25/2019

TIME RECEIVED: 4:05 PM

SAMPLED BY: NICK SUMMERLAND/LAMBDA

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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	460	50	ug/Kg (PPB)	MR	6/24/2019	6/27/2019	EPA 5035A
Toluene	1,300	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					

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NAME:

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PROJECT NO:

DATE SAMPLED: 6/24/2019

TIME SAMPLED: 3:12 PM

LOCATION: GOOSE CREEK

SAMPLE MATRIX: SOIL

DATE RECEIVED: 6/25/2019

TIME RECEIVED: 4:05 PM

MI

MOISTURE

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
SAMPLE ID: HA-1 13'6"	% MOISTURE EPA 3550C	4.4	0.050	% OF SAMPLE	AS	6/25/2019
SAMPLE ID: FS-1 5'6"	% MOISTURE EPA 3550C	4.4	0.050	% OF SAMPLE	AS	6/25/2019
SAMPLE ID: HA-S 4'	% MOISTURE EPA 3550C	7.4	0.050	% OF SAMPLE	AS	6/25/2019
SAMPLE ID: HA-W 4'	% MOISTURE EPA 3550C	6.8	0.050	% OF SAMPLE	AS	6/25/2019
SAMPLE ID: HA-NW 4'	% MOISTURE EPA 3550C	5.8	0.050	% OF SAMPLE	AS	6/25/2019

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