

**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: EPA-UIC ANNUAL SAMPLES

GTA ProjNo: 111621-1

Sampled By: LER

Date Rec: 11/16/2021

Time Rec: 11:48 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	SALLING HANSON 4-4	11/3/2021		BRINE
2	ST. LOUD B3-29	11/3/2021	1:05 PM	BRINE
3	ST. FOREST 1-24	11/3/2021	11:00 AM	BRINE
4	HASS C3-33	11/11/2021	9:00 AM	BRINE
5	WERTH C1-4	11/11/2021	8:00 AM	BRINE
6	BUREK B4-8	11/11/2021	9:30 AM	BRINE
7	TIMM C2-10	11/11/2021	9:50 AM	BRINE
8	HASTINGS C4-7	11/11/2021	11:00 AM	BRINE
9	DIAMOND D2-13	11/11/2021	11:00 AM	BRINE
10	MANN A2-21	11/11/2021	10:00 AM	BRINE
11	KOGELMANN C1-10	11/11/2021	12:00 PM	BRINE
12	ST. CLEON 1-11	11/11/2021	1:19 PM	BRINE
13	ST. KALKASKA 2-12	11/12/2021	3:00 PM	BRINE
14	ST. WHITEWATER 1-36	11/11/2021	11:30 AM	BRINE
15	ST. PARADISE 1-19	11/11/2021	10:30 AM	BRINE
16	ST. WHITEWATER B1-35	11/11/2021	11:15 AM	BRINE
17	ST. WHITEWATER 2-32	11/11/2021	11:00 AM	BRINE
18	DAVENPORT 4-5	11/12/2021	9:15 AM	BRINE
19	STACK JEWELL 1-29	11/11/2021	1:01 PM	BRINE
20	SPRINGDALE 2-36	11/11/2021	1:47 PM	BRINE

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
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Robinwood Court
Traverse City, MI 49686
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: GTA PROJECT NO: 111621-1
LOCATION: EPA-UIC ANNUAL SAMPLES
DATE SAMPLED: 11/3/2021
TIME SAMPLED:
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLED BY: MI
LER
SAMPLE MATRIX: BRINE
SAMPLE ID: SALLING HANSON 4-4

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISS EPA 6020A	59,000	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A
MAGNESIUM DISS EPA 6020A	8,800	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A
SODIUM DISS EPA 6020A	14,000	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO:
LOCATION: EPA-UIC ANNUAL SAMPLES
MI
SAMPLED BY: LER
SAMPLE ID: SALLING HANSON 4-4

GTA PROJECT NO: 111621-1
GTA SAMPLE NO: 1
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
DATE SAMPLED: 11/3/2021
TIME SAMPLED:
SAMPLE MATRIX: BRINE

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	120	10	mg/L (PPM)	TR	12/1/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/1/2021
CHLORIDE EPA 300.0	200,000	2,000	mg/L (PPM)	TR	11/22/2021
pH EPA 150.1 - LAB	5.5	0.10	s.u.	TR	12/1/2021
SPECIFIC GRAVITY SM 2710F	1.188	-	-	TR	12/1/2021
SULFATE EPA 300.0	93	50	mg/L (PPM)	TR	11/22/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	360,000	5.0	mg/L (PPM)	TR	12/2/2021

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: GTA PROJECT NO: 111621-1
LOCATION: EPA-UIC ANNUAL SAMPLES
DATE SAMPLED: 11/3/2021
TIME SAMPLED: 1:05 PM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLED BY: MI
LER
SAMPLE MATRIX: BRINE
SAMPLE ID: ST. LOUD B3-29

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISS EPA 6020A	2,800	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A
MAGNESIUM DISS EPA 6020A	1,900	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A
SODIUM DISS EPA 6020A	36,000	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 111621-1

PROJECT NO:

GTA SAMPLE NO: 2

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

MI

DATE SAMPLED: 11/3/2021

TIME SAMPLED: 1:05 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. LOUD B3-29

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	ND	10	mg/L (PPM)	TR	12/1/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/1/2021
CHLORIDE EPA 300.0	150,000	2,000	mg/L (PPM)	TR	11/22/2021
pH EPA 150.1 - LAB	4.0	0.10	s.u.	TR	12/1/2021
SPECIFIC GRAVITY SM 2710F	1.153	-	-	TR	12/1/2021
SULFATE EPA 300.0	ND	50	mg/L (PPM)	TR	11/22/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	230,000	5.0	mg/L (PPM)	TR	12/2/2021

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: GTA PROJECT NO: 111621-1
LOCATION: EPA-UIC ANNUAL SAMPLES
DATE SAMPLED: 11/3/2021
TIME SAMPLED: 11:00 AM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLED BY: MI
LER
SAMPLE MATRIX: BRINE
SAMPLE ID: ST. FOREST 1-24

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISS EPA 6020A	53,000	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A
MAGNESIUM DISS EPA 6020A	11,000	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A
SODIUM DISS EPA 6020A	22,000	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO:
LOCATION: EPA-UIC ANNUAL SAMPLES
MI
SAMPLED BY: LER
SAMPLE ID: ST. FOREST 1-24

GTA PROJECT NO: 111621-1
GTA SAMPLE NO: 3
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
DATE SAMPLED: 11/3/2021
TIME SAMPLED: 11:00 AM
SAMPLE MATRIX: BRINE

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	89	10	mg/L (PPM)	TR	12/1/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/1/2021
CHLORIDE EPA 300.0	230,000	2,000	mg/L (PPM)	TR	11/22/2021
pH EPA 150.1 - LAB	5.5	0.10	s.u.	TR	12/1/2021
SPECIFIC GRAVITY SM 2710F	1.199	-	-	TR	12/1/2021
SULFATE EPA 300.0	130	50	mg/L (PPM)	TR	11/22/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	390,000	5.0	mg/L (PPM)	TR	12/2/2021

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 111621-1

PROJECT NO:

GTA SAMPLE NO: 4

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 9:00 AM

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

MI

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: HASS C3-33

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
BARIUM DISS EPA 6020A	47	1.0	mg/L (PPM)	MR	11/29/2021	EPA 3005A
CALCIUM DISS EPA 6020A	460	10	mg/L (PPM)	MR	11/29/2021	EPA 3005A
IRON TOTAL EPA 6020A	28	10	mg/L (PPM)	MR	11/29/2021	EPA 3020A
MAGNESIUM DISS EPA 6020A	58	10	mg/L (PPM)	MR	11/29/2021	EPA 3005A
SODIUM DISS EPA 6020A	21,000	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

MI

SAMPLED BY: LER

SAMPLE ID: HASS C3-33

GTA PROJECT NO: 111621-1

GTA SAMPLE NO: 4

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 9:00 AM

SAMPLE MATRIX: BRINE

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	1,200	10	mg/L (PPM)	TR	12/1/2021
ALKALINITY SM 4500CO2D (CARBONATE)	11	10	mg/L (PPM)	TR	12/1/2021
CHLORIDE EPA 300.0	36,000	2,000	mg/L (PPM)	TR	11/22/2021
pH EPA 150.1 - LAB	8.0	0.10	s.u.	TR	12/1/2021
RESISTIVITY SM 2510A	16	-	ohms x cm	AS	11/22/2021
SPECIFIC GRAVITY SM 2710F	1.043	-	-	TR	12/1/2021
SULFATE EPA 300.0	ND	50	mg/L (PPM)	TR	11/22/2021
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC	11/20/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	59,000	5.0	mg/L (PPM)	TR	12/2/2021

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO:
LOCATION: EPA-UIC ANNUAL SAMPLES
MI
SAMPLED BY: LER
SAMPLE ID: WERTH C1-4

GTA PROJECT NO: 111621-1
GTA SAMPLE NO: 5
DATE SAMPLED: 11/11/2021
TIME SAMPLED: 8:00 AM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLE MATRIX: BRINE

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
BARIUM DISS EPA 6020A	13	1.0	mg/L (PPM)	MR	11/29/2021	EPA 3005A
CALCIUM DISS EPA 6020A	ND	10	mg/L (PPM)	MR	11/29/2021	EPA 3005A
IRON TOTAL EPA 6020A	ND	10	mg/L (PPM)	MR	11/29/2021	EPA 3020A
MAGNESIUM DISS EPA 6020A	170	10	mg/L (PPM)	MR	11/29/2021	EPA 3005A
SODIUM DISS EPA 6020A	7,000	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 111621-1

PROJECT NO:

GTA SAMPLE NO: 5

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

MI

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 8:00 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: WERTH C1-4

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	1,100	10	mg/L (PPM)	TR	12/1/2021
ALKALINITY SM 4500CO2D (CARBONATE)	21	10	mg/L (PPM)	TR	12/1/2021
CHLORIDE EPA 300.0	15,000	2,000	mg/L (PPM)	TR	11/22/2021
pH EPA 150.1 - LAB	8.3	0.10	s.u.	TR	12/1/2021
RESISTIVITY SM 2510A	28	-	ohms x cm	AS	11/22/2021
SPECIFIC GRAVITY SM 2710F	1.018	-	-	TR	12/1/2021
SULFATE EPA 300.0	ND	50	mg/L (PPM)	TR	11/22/2021
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC	11/20/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	29,000	5.0	mg/L (PPM)	TR	12/2/2021

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: EPA-UIC ANNUAL SAMPLES
LOCATION: MI
SAMPLED BY: LER
SAMPLE ID: BUREK B4-8

GTA PROJECT NO: 111621-1
GTA SAMPLE NO: 6
DATE SAMPLED: 11/11/2021
TIME SAMPLED: 9:30 AM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLE MATRIX: BRINE

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
BARIUM DISS EPA 6020A	2.6	1.0	mg/L (PPM)	MR	11/29/2021	EPA 3005A
CALCIUM DISS EPA 6020A	ND	10	mg/L (PPM)	MR	11/29/2021	EPA 3005A
IRON TOTAL EPA 6020A	ND	10	mg/L (PPM)	MR	11/29/2021	EPA 3020A
MAGNESIUM DISS EPA 6020A	27	10	mg/L (PPM)	MR	11/29/2021	EPA 3005A
SODIUM DISS EPA 6020A	1,500	10	mg/L (PPM)	MR	11/29/2021	EPA 3005A

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5COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

MI

SAMPLED BY: LER

SAMPLE ID: BUREK B4-8

GTA PROJECT NO: 111621-1

GTA SAMPLE NO: 6

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 9:30 AM

SAMPLE MATRIX: BRINE

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	1,900	10	mg/L (PPM)	TR	12/1/2021
ALKALINITY SM 4500CO2D (CARBONATE)	110	10	mg/L (PPM)	TR	12/1/2021
CHLORIDE EPA 300.0	3,400	50	mg/L (PPM)	TR	11/22/2021
pH EPA 150.1 - LAB	8.8	0.10	s.u.	TR	12/1/2021
RESISTIVITY SM 2510A	100	-	ohms x cm	AS	11/22/2021
SPECIFIC GRAVITY SM 2710F	1.011	-	-	TR	12/1/2021
SULFATE EPA 300.0	ND	50	mg/L (PPM)	TR	11/22/2021
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC	11/20/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	7,700	5.0	mg/L (PPM)	TR	12/2/2021

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO:
LOCATION: EPA-UIC ANNUAL SAMPLES
MI
SAMPLED BY: LER
SAMPLE ID: TIMM C2-10

GTA PROJECT NO: 111621-1
GTA SAMPLE NO: 7
DATE SAMPLED: 11/11/2021
TIME SAMPLED: 9:50 AM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLE MATRIX: BRINE

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
BARIUM DISS EPA 6020A	5.4	1.0	mg/L (PPM)	MR	11/29/2021	EPA 3005A
CALCIUM DISS EPA 6020A	ND	10	mg/L (PPM)	MR	11/29/2021	EPA 3005A
IRON TOTAL EPA 6020A	ND	10	mg/L (PPM)	MR	11/29/2021	EPA 3020A
MAGNESIUM DISS EPA 6020A	50	10	mg/L (PPM)	MR	11/29/2021	EPA 3005A
SODIUM DISS EPA 6020A	1,500	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

MI

SAMPLED BY: LER

SAMPLE ID: TIMM C2-10

GTA PROJECT NO: 111621-1

GTA SAMPLE NO: 7

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 9:50 AM

SAMPLE MATRIX: BRINE

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	1,900	10	mg/L (PPM)	TR	12/1/2021
ALKALINITY SM 4500CO2D (CARBONATE)	71	10	mg/L (PPM)	TR	12/1/2021
CHLORIDE EPA 300.0	6,400	2,000	mg/L (PPM)	TR	11/22/2021
pH EPA 150.1 - LAB	8.6	0.10	s.u.	TR	12/1/2021
RESISTIVITY SM 2510A	50	-	ohms x cm	AS	11/22/2021
SPECIFIC GRAVITY SM 2710F	1.014	-	-	TR	12/1/2021
SULFATE EPA 300.0	ND	50	mg/L (PPM)	TR	11/22/2021
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC	11/20/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	16,000	5.0	mg/L (PPM)	TR	12/2/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

**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

GTA PROJECT NO: 111621-1

PROJECT NO:

GTA SAMPLE NO: 8

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 11:00 AM

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

SAMPLED BY: MI
LER

SAMPLE MATRIX: BRINE

SAMPLE ID: HASTINGS C4-7

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
BARIUM DISS EPA 6020A	55	1.0	mg/L (PPM)	MR	11/29/2021	EPA 3005A
CALCIUM DISS EPA 6020A	470	10	mg/L (PPM)	MR	11/29/2021	EPA 3005A
IRON TOTAL EPA 6020A	41	10	mg/L (PPM)	MR	11/29/2021	EPA 3020A
MAGNESIUM DISS EPA 6020A	700	10	mg/L (PPM)	MR	11/29/2021	EPA 3005A
SODIUM DISS EPA 6020A	25,000	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

**INDEPENDENT TESTING LAB**

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

MI

SAMPLED BY: LER

SAMPLE ID: HASTINGS C4-7

GTA PROJECT NO: 111621-1

GTA SAMPLE NO: 8

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 11:00 AM

SAMPLE MATRIX: BRINE

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	700	10	mg/L (PPM)	TR	12/1/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/1/2021
CHLORIDE EPA 300.0	59,000	2,000	mg/L (PPM)	TR	11/22/2021
pH EPA 150.1 - LAB	7.6	0.10	s.u.	TR	12/1/2021
RESISTIVITY SM 2510A	6.5	-	ohms x cm	AS	11/22/2021
SPECIFIC GRAVITY SM 2710F	1.064	-	-	TR	12/1/2021
SULFATE EPA 300.0	ND	50	mg/L (PPM)	TR	11/22/2021
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC	11/20/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	95,000	5.0	mg/L (PPM)	TR	12/2/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

**INDEPENDENT TESTING LAB**

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FAX: 231-929-0894

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO:
LOCATION: EPA-UIC ANNUAL SAMPLES
MI
SAMPLED BY: LER
SAMPLE ID: DIAMOND D2-13

GTA PROJECT NO: 111621-1
GTA SAMPLE NO: 9
DATE SAMPLED: 11/11/2021
TIME SAMPLED: 11:00 AM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLE MATRIX: BRINE

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
BARIUM DISS EPA 6020A	120	1.0	mg/L (PPM)	MR	11/29/2021	EPA 3005A
CALCIUM DISS EPA 6020A	1,800	10	mg/L (PPM)	MR	11/29/2021	EPA 3005A
IRON TOTAL EPA 6020A	31	10	mg/L (PPM)	MR	11/29/2021	EPA 3020A
MAGNESIUM DISS EPA 6020A	1,300	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A
SODIUM DISS EPA 6020A	27,000	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 111621-1

PROJECT NO:

GTA SAMPLE NO: 9

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

MI

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 11:00 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: DIAMOND D2-13

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	360	10	mg/L (PPM)	TR	12/1/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/1/2021
CHLORIDE EPA 300.0	100,000	2,000	mg/L (PPM)	TR	11/22/2021
pH EPA 150.1 - LAB	7.1	0.10	s.u.	TR	12/1/2021
RESISTIVITY SM 2510A	4.0	-	ohms x cm	AS	11/22/2021
SPECIFIC GRAVITY SM 2710F	1.109	-	-	TR	12/1/2021
SULFATE EPA 300.0	ND	50	mg/L (PPM)	TR	11/22/2021
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC	11/20/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	160,000	5.0	mg/L (PPM)	TR	12/2/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: EPA-UIC ANNUAL SAMPLES
LOCATION: MI
SAMPLED BY: LER
SAMPLE ID: MANN A2-21

GTA PROJECT NO: 111621-1
GTA SAMPLE NO: 10
DATE SAMPLED: 11/11/2021
TIME SAMPLED: 10:00 AM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLE MATRIX: BRINE

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
BARIUM DISS EPA 6020A	11	1.0	mg/L (PPM)	MR	11/29/2021	EPA 3005A
CALCIUM DISS EPA 6020A	ND	10	mg/L (PPM)	MR	11/29/2021	EPA 3005A
IRON TOTAL EPA 6020A	ND	10	mg/L (PPM)	MR	11/29/2021	EPA 3020A
MAGNESIUM DISS EPA 6020A	260	10	mg/L (PPM)	MR	11/29/2021	EPA 3005A
SODIUM DISS EPA 6020A	15,000	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

MI

SAMPLED BY: LER

SAMPLE ID: MANN A2-21

GTA PROJECT NO: 111621-1

GTA SAMPLE NO: 10

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 10:00 AM

SAMPLE MATRIX: BRINE

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	1,700	10	mg/L (PPM)	TR	12/1/2021
ALKALINITY SM 4500CO2D (CARBONATE)	26	10	mg/L (PPM)	TR	12/1/2021
CHLORIDE EPA 300.0	23,000	2,000	mg/L (PPM)	TR	11/22/2021
pH EPA 150.1 - LAB	8.2	0.10	s.u.	TR	12/1/2021
RESISTIVITY SM 2510A	18	-	ohms x cm	AS	11/22/2021
SPECIFIC GRAVITY SM 2710F	1.032	-	-	TR	12/1/2021
SULFATE EPA 300.0	ND	50	mg/L (PPM)	TR	11/22/2021
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC	11/20/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	40,000	5.0	mg/L (PPM)	TR	12/2/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO:
LOCATION: EPA-UIC ANNUAL SAMPLES
MI
SAMPLED BY: LER
SAMPLE ID: KOGELMANN C1-10

GTA PROJECT NO: 111621-1
GTA SAMPLE NO: 11
DATE SAMPLED: 11/11/2021
TIME SAMPLED: 12:00 PM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLE MATRIX: BRINE

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
BARIUM DISS EPA 6020A	71	1.0	mg/L (PPM)	MR	11/29/2021	EPA 3005A
CALCIUM DISS EPA 6020A	840	10	mg/L (PPM)	MR	11/29/2021	EPA 3005A
IRON TOTAL EPA 6020A	29	10	mg/L (PPM)	MR	11/29/2021	EPA 3020A
MAGNESIUM DISS EPA 6020A	890	10	mg/L (PPM)	MR	11/29/2021	EPA 3005A
SODIUM DISS EPA 6020A	24,000	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 111621-1

PROJECT NO:

GTA SAMPLE NO: 11

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

MI

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 12:00 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: KOGELMANN C1-10

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	710	10	mg/L (PPM)	TR	12/1/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/1/2021
CHLORIDE EPA 300.0	68,000	2,000	mg/L (PPM)	TR	11/22/2021
pH EPA 150.1 - LAB	7.5	0.10	s.u.	TR	12/1/2021
RESISTIVITY SM 2510A	5.7	-	ohms x cm	AS	11/22/2021
SPECIFIC GRAVITY SM 2710F	1.075	-	-	TR	12/1/2021
SULFATE EPA 300.0	ND	50	mg/L (PPM)	TR	11/22/2021
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC	11/20/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	100,000	5.0	mg/L (PPM)	TR	12/2/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO:
LOCATION: EPA-UIC ANNUAL SAMPLES
MI
SAMPLED BY: LER
SAMPLE ID: ST. CLEON 1-11

GTA PROJECT NO: 111621-1
GTA SAMPLE NO: 12
DATE SAMPLED: 11/11/2021
TIME SAMPLED: 1:19 PM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLE MATRIX: BRINE

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
BARIUM DISS EPA 6020A	ND	1.0	mg/L (PPM)	MR	11/29/2021	EPA 3005A
CALCIUM DISS EPA 6020A	38,000	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A
IRON TOTAL EPA 6020A	ND	10	mg/L (PPM)	MR	11/29/2021	EPA 3020A
MAGNESIUM DISS EPA 6020A	5,700	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A
SODIUM DISS EPA 6020A	13,000	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

**INDEPENDENT TESTING LAB**

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

MI

SAMPLED BY: LER

SAMPLE ID: ST. CLEON 1-11

GTA PROJECT NO: 111621-1

GTA SAMPLE NO: 12

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 1:19 PM

SAMPLE MATRIX: BRINE

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	6,900	10	mg/L (PPM)	TR	12/1/2021
ALKALINITY SM 4500CO2D (CARBONATE)	210	10	mg/L (PPM)	TR	12/1/2021
CHLORIDE EPA 300.0	180,000	2,000	mg/L (PPM)	TR	11/22/2021
pH EPA 150.1 - LAB	8.5	0.10	s.u.	TR	12/1/2021
RESISTIVITY SM 2510A	3.0	-	ohms x cm	AS	11/22/2021
SPECIFIC GRAVITY SM 2710F	1.160	-	-	TR	12/1/2021
SULFATE EPA 300.0	140	50	mg/L (PPM)	TR	11/22/2021
SULFIDE SM 4500S D	6.5	1.0	mg/L (PPM)	KC	11/20/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	290,000	5.0	mg/L (PPM)	TR	12/2/2021

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LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: GTA PROJECT NO: 111621-1
LOCATION: EPA-UIC ANNUAL SAMPLES
DATE SAMPLED: 11/12/2021
TIME SAMPLED: 3:00 PM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLED BY: MI
LER
SAMPLE MATRIX: BRINE
SAMPLE ID: ST. KALKASKA 2-12

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISS EPA 6020A	43,000	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A
MAGNESIUM DISS EPA 6020A	5,200	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A
SODIUM DISS EPA 6020A	15,000	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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FAX: 231-929-0894

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 111621-1

PROJECT NO:

GTA SAMPLE NO: 13

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

MI

DATE SAMPLED: 11/12/2021

TIME SAMPLED: 3:00 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. KALKASKA 2-12

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	230	10	mg/L (PPM)	TR	12/1/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/1/2021
CHLORIDE EPA 300.0	170,000	2,000	mg/L (PPM)	TR	11/22/2021
pH EPA 150.1 - LAB	6.1	0.10	s.u.	TR	12/1/2021
SPECIFIC GRAVITY SM 2710F	1.180	-	-	TR	12/1/2021
SULFATE EPA 300.0	100	50	mg/L (PPM)	TR	11/22/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	270,000	5.0	mg/L (PPM)	TR	12/2/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

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PH: 231-929-0905

FAX: 231-929-0894

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COMPANY: LAMBDA ENERGY RESOURCES, LLC GTA PROJECT NO: 111621-1
PROJECT NO: GTA SAMPLE NO: 14
LOCATION: EPA-UIC ANNUAL SAMPLES DATE SAMPLED: 11/11/2021
TIME SAMPLED: 11:30 AM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLED BY: MI SAMPLE MATRIX: BRINE
LER
SAMPLE ID: ST. WHITEWATER 1-36

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISS EPA 6020A	70,000	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A
MAGNESIUM DISS EPA 6020A	7,900	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A
SODIUM DISS EPA 6020A	12,000	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

**INDEPENDENT TESTING LAB**

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FAX: 231-929-0894

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO:
LOCATION: EPA-UIC ANNUAL SAMPLES
MI
SAMPLED BY: LER
SAMPLE ID: ST. WHITEWATER 1-36

GTA PROJECT NO: 111621-1
GTA SAMPLE NO: 14
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
DATE SAMPLED: 11/11/2021
TIME SAMPLED: 11:30 AM
SAMPLE MATRIX: BRINE

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	210	10	mg/L (PPM)	TR	12/1/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/1/2021
CHLORIDE EPA 300.0	300,000	2,000	mg/L (PPM)	TR	11/22/2021
pH EPA 150.1 - LAB	5.1	0.10	s.u.	TR	12/1/2021
SPECIFIC GRAVITY SM 2710F	1.278	-	-	TR	12/1/2021
SULFATE EPA 300.0	83	50	mg/L (PPM)	TR	11/22/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	480,000	5.0	mg/L (PPM)	TR	12/2/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

**INDEPENDENT TESTING LAB**

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PH: 231-929-0905

FAX: 231-929-0894

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: GTA PROJECT NO: 111621-1
LOCATION: EPA-UIC ANNUAL SAMPLES
DATE SAMPLED: 11/11/2021
TIME SAMPLED: 10:30 AM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLED BY: MI
LER
SAMPLE MATRIX: BRINE
SAMPLE ID: ST. PARADISE 1-19

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISS EPA 6020A	47,000	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A
MAGNESIUM DISS EPA 6020A	5,500	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A
SODIUM DISS EPA 6020A	11,000	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

**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

GTA PROJECT NO: 111621-1

PROJECT NO:

GTA SAMPLE NO: 15

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

MI

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 10:30 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. PARADISE 1-19

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	ND	10	mg/L (PPM)	TR	12/1/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/1/2021
CHLORIDE EPA 300.0	240,000	2,000	mg/L (PPM)	TR	11/22/2021
pH EPA 150.1 - LAB	2.0	0.10	s.u.	TR	12/1/2021
SPECIFIC GRAVITY SM 2710F	1.263	-	-	TR	12/1/2021
SULFATE EPA 300.0	190	50	mg/L (PPM)	TR	11/22/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	390,000	5.0	mg/L (PPM)	TR	12/2/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

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COMPANY: LAMBDA ENERGY RESOURCES, LLC GTA PROJECT NO: 111621-1
PROJECT NO: GTA SAMPLE NO: 16
LOCATION: EPA-UIC ANNUAL SAMPLES DATE SAMPLED: 11/11/2021
TIME SAMPLED: 11:15 AM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLED BY: MI SAMPLE MATRIX: BRINE
LER
SAMPLE ID: ST. WHITEWATER B1-35

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISS EPA 6020A	66,000	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A
MAGNESIUM DISS EPA 6020A	7,300	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A
SODIUM DISS EPA 6020A	12,000	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

**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:
LOCATION: EPA-UIC ANNUAL SAMPLES
MI
SAMPLED BY: LER
SAMPLE ID: ST. WHITEWATER B1-35

GTA PROJECT NO: 111621-1
GTA SAMPLE NO: 16
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
DATE SAMPLED: 11/11/2021
TIME SAMPLED: 11:15 AM
SAMPLE MATRIX: BRINE

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	280	10	mg/L (PPM)	TR	12/1/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/1/2021
CHLORIDE EPA 300.0	250,000	2,000	mg/L (PPM)	TR	11/22/2021
pH EPA 150.1 - LAB	5.1	0.10	s.u.	TR	12/1/2021
SPECIFIC GRAVITY SM 2710F	1.271	-	-	TR	12/1/2021
SULFATE EPA 300.0	190	50	mg/L (PPM)	TR	11/22/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	490,000	5.0	mg/L (PPM)	TR	12/2/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

**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 GTA PROJECT NO: 111621-1
PROJECT NO: GTA SAMPLE NO: 17
LOCATION: EPA-UIC ANNUAL SAMPLES DATE SAMPLED: 11/11/2021
TIME SAMPLED: 11:00 AM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLED BY: MI SAMPLE MATRIX: BRINE
LER
SAMPLE ID: ST. WHITEWATER 2-32

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISS EPA 6020A	64,000	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A
MAGNESIUM DISS EPA 6020A	7,200	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A
SODIUM DISS EPA 6020A	11,000	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A

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LOD = LIMIT OF DETECTION

DISS = DISSOLVED

**INDEPENDENT TESTING LAB**

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PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO:
LOCATION: EPA-UIC ANNUAL SAMPLES
MI
SAMPLED BY: LER
SAMPLE ID: ST. WHITEWATER 2-32

GTA PROJECT NO: 111621-1
GTA SAMPLE NO: 17
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
DATE SAMPLED: 11/11/2021
TIME SAMPLED: 11:00 AM
SAMPLE MATRIX: BRINE

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	290	10	mg/L (PPM)	TR	12/1/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/1/2021
CHLORIDE EPA 300.0	290,000	2,000	mg/L (PPM)	TR	11/22/2021
pH EPA 150.1 - LAB	5.1	0.10	s.u.	TR	12/1/2021
SPECIFIC GRAVITY SM 2710F	1.276	-	-	TR	12/1/2021
SULFATE EPA 300.0	81	50	mg/L (PPM)	TR	11/22/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	440,000	5.0	mg/L (PPM)	TR	12/2/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 111621-1

PROJECT NO:

GTA SAMPLE NO: 18

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 11/12/2021

TIME SAMPLED: 9:15 AM

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

MI

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: DAVENPORT 4-5

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
BARIUM DISS EPA 6020A	1.3	1.0	mg/L (PPM)	MR	11/29/2021	EPA 3005A
CALCIUM DISS EPA 6020A	46,000	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A
IRON TOTAL EPA 6020A	ND	10	mg/L (PPM)	MR	11/29/2021	EPA 3020A
MAGNESIUM DISS EPA 6020A	5,400	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A
SODIUM DISS EPA 6020A	11,000	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

**INDEPENDENT TESTING LAB**

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PH: 231-929-0905

FAX: 231-929-0894

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

MI

SAMPLED BY: LER

SAMPLE ID: DAVENPORT 4-5

GTA PROJECT NO: 111621-1

GTA SAMPLE NO: 18

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

DATE SAMPLED: 11/12/2021

TIME SAMPLED: 9:15 AM

SAMPLE MATRIX: BRINE

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	240	10	mg/L (PPM)	TR	12/1/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/1/2021
CHLORIDE EPA 300.0	170,000	2,000	mg/L (PPM)	TR	11/22/2021
pH EPA 150.1 - LAB	6.1	0.10	s.u.	TR	12/1/2021
RESISTIVITY SM 2510A	3.1	-	ohms x cm	AS	11/22/2021
SPECIFIC GRAVITY SM 2710F	1.170	-	-	TR	12/1/2021
SULFATE EPA 300.0	64	50	mg/L (PPM)	TR	11/22/2021
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC	11/20/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	220,000	5.0	mg/L (PPM)	TR	12/2/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

**INDEPENDENT TESTING LAB**

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: GTA PROJECT NO: 111621-1
LOCATION: EPA-UIC ANNUAL SAMPLES
DATE SAMPLED: 11/11/2021
TIME SAMPLED: 1:01 PM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLED BY: MI
LER
SAMPLE MATRIX: BRINE
SAMPLE ID: STACK JEWELL 1-29

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISS EPA 6020A	26,000	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A
MAGNESIUM DISS EPA 6020A	3,900	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A
SODIUM DISS EPA 6020A	7,300	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

**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:
LOCATION: EPA-UIC ANNUAL SAMPLES
MI
SAMPLED BY: LER
SAMPLE ID: STACK JEWELL 1-29

GTA PROJECT NO: 111621-1
GTA SAMPLE NO: 19
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
DATE SAMPLED: 11/11/2021
TIME SAMPLED: 1:01 PM
SAMPLE MATRIX: BRINE

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	290	10	mg/L (PPM)	TR	12/1/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/1/2021
CHLORIDE EPA 300.0	270,000	2,000	mg/L (PPM)	TR	11/23/2021
pH EPA 150.1 - LAB	5.3	0.10	s.u.	TR	12/1/2021
SPECIFIC GRAVITY SM 2710F	1.252	-	-	TR	12/1/2021
SULFATE EPA 300.0	96	50	mg/L (PPM)	TR	11/23/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	450,000	5.0	mg/L (PPM)	TR	12/2/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: GTA PROJECT NO: 111621-1
LOCATION: EPA-UIC ANNUAL SAMPLES
DATE SAMPLED: 11/11/2021
TIME SAMPLED: 1:47 PM
DATE RECEIVED: 11/16/2021
TIME RECEIVED: 11:48 AM
SAMPLED BY: MI
LER
SAMPLE MATRIX: BRINE
SAMPLE ID: SPRINGDALE 2-36

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISS EPA 6020A	14,000	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A
MAGNESIUM DISS EPA 6020A	2,400	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A
SODIUM DISS EPA 6020A	4,500	100	mg/L (PPM)	MR	11/29/2021	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

**INDEPENDENT TESTING LAB**

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 111621-1

PROJECT NO:

GTA SAMPLE NO: 20

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 11/16/2021

TIME RECEIVED: 11:48 AM

MI

DATE SAMPLED: 11/11/2021

TIME SAMPLED: 1:47 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: SPRINGDALE 2-36

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	1,100	10	mg/L (PPM)	TR	12/1/2021
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	12/1/2021
CHLORIDE EPA 300.0	300,000	2,000	mg/L (PPM)	TR	11/22/2021
pH EPA 150.1 - LAB	5.6	0.10	s.u.	TR	12/1/2021
SPECIFIC GRAVITY SM 2710F	1.291	-	-	TR	12/1/2021
SULFATE EPA 300.0	90	50	mg/L (PPM)	TR	11/23/2021
TOTAL DISSOLVED SOLIDS EPA 160.1	480,000	5.0	mg/L (PPM)	TR	12/2/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

W/O

CHAIN OF CUSTODY

PROJECT NUMBER Annuals	SITE NAME/ADDRESS KALKASKA, MI	COMPANY/NAME Lambda Energy
SAMPLED BY VARIOUS	COMPANY Same	GTA PROJECT # 111621-1

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	Selling Hanson 4-4	11/3/2021	N/A	Beine	Parameter #1
2	St Louis B3-29	11/3/2021	1:05pm	Beine	Parameter #1
3	St Forest 1-24	11/3/2021	11:00am	Beine	" " #1
4	HASS C3-33	11/11/2021	9:00am	Beine	Parameter #2
5	Weceth C1-4	11/11/2021	8:00am	Beine	Parameter #2
6	Burek B4-8	11/11/2021	9:30am	Beine	" " #2
7	Timm C2-10	11/11/2021	9:50am	Beine	" " #2
8	Hastings C4-7	11/11/2021	11:00am	Beine	" " #2
9	Diamond D2-13	11/11/2021	11:00am	Beine	" " #2
10	MANN A2-21	11/11/2021	10:00am	Beine	" " #2
11	Kogelmann C1-10	11/11/2021	12:00pm	Beine	" " #2
12	St Clcon 1-11	11/11/2021	1:19pm	Beine	" " #2
13	St Kalkaska 2-12	11/12/2021	3:00pm	Beine	" " #1
14	St White Water 1-36	11/11/2021	11:30am	Beine	" " #1
15	St Paradise 1-19	11/11/2021	10:50am	Beine	" " #1

BILL TO:	TempRec: ☐ YES	On Ice? ☐ ☐	REPORT TO:
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RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
<i>J. Kuis</i>	11/16/21 11:48am	<i>[Signature]</i>	11/16/21 11:48

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

2/2

CHAIN OF CUSTODY

PROJECT NUMBER ANNUALS	SITE NAME/ADDRESS KALKASKA, MI	COMPANY/NAME Lambda Energy
SAMPLED BY VARIOUS	COMPANY Same	GTA PROJECT # 111621-1

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
16	St Whitewater Bt-35	11/11/2021	11:15am	Brine	Parameter #1
17	St Whitewater 2-32	11/11/2021	11:00am	Brine	#1
18	Davenport 4-5	11/12/2021	9:15am	Brine	#2
19	Stack Jowell 1-29	11/11/2021	1:01pm	Brine	#1
20	Springdale 2-36	11/11/2021	1:47pm	Brine	#1

BILL TO:	TempRec: ☐ Y ☐ N	On Ice? ☐ ☐	REPORT TO:
RELEASED BY [Signature]	DATE/TIME 11/16/21 11:48am	RECEIVED BY [Signature]	DATE/TIME 11/16/21 11:48
REQUESTED TAT ☐ STANDARD ☐ 1 BUSINESS DAY ☐ 2 BUSINESS DAYS ☐ 3 BUSINESS DAYS			