

**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: 102124-3

Sampled By: LER

Date Rec:

10/21/2024

Time Rec:

1:34 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	STACK JEWELL 1-29	9/19/2024	11:30 AM	BRINE
2	PARCELLS 2-9	9/19/2024	12:30 PM	BRINE
3	CLEON 1-11	9/19/2024	1:00 PM	BRINE
4	WALTON 6-16	9/19/2024	2:36 PM	BRINE
5	ST. SPRINGDALE 2-36	9/19/2024	2:45 PM	BRINE
6	BOWMAN ST MAYFIELD 6-19A	9/19/2024	3:01 PM	BRINE
7	ST. FOREST 1-24	9/21/2024	8:00 AM	BRINE
8	SALLING HANSON 4-4	9/21/2024	9:30 AM	BRINE
9	SPRINGDALE 1-28	9/23/2024	8:00 AM	BRINE
10	ST. CASE & HAACK 1-27	9/21/2024	11:00 AM	BRINE
11	HASTINGS C4-7	9/24/2024	9:00 AM	BRINE
12	DIAMOND D2-13	9/24/2024	7:00 AM	BRINE
13	ST. OSSINEKE B3-36	9/24/2024	8:00 AM	BRINE
14	WEETH C1-4	9/24/2024	11:00 AM	BRINE
15	MANN A2-21	9/24/2024	9:00 AM	BRINE
16	HAAS HUNT CLUB C3-33	9/24/2024	1:00 PM	BRINE
17	ST. BLUE LAKE G1-17	9/24/2024	8:45 AM	BRINE
18	ST. KALKASKA 2-12	9/24/2024	12:15 PM	BRINE
19	NICKERSON 5-1	9/24/2024	9:00 AM	BRINE
20	PARADISE 1-19	9/24/2024	7:30 AM	BRINE
21	WHITEWATER 1-32	9/24/2024	9:50 AM	BRINE
22	WHITEWATER 1-36	9/24/2024	1:00 PM	BRINE
23	WHITEWATER 2-32	9/24/2024	9:50 AM	BRINE
24	WHITEWATER B1-35	9/24/2024	1:00 PM	BRINE
25	MAPLE GROVE 1-6	9/23/2024	10:30 AM	BRINE
26	MAPLE GROVE 1-16	9/23/2024	9:22 AM	BRINE
27	BEAR LAKE 1-13	9/23/2024	1:40 PM	BRINE
28	BEAR LAKE 1-32	9/24/2024	9:30 AM	BRINE
29	MANISTEE 1-15	9/24/2024	7:45 AM	BRINE
30	FALK 1-4	9/24/2024	8:30 AM	BRINE
31	TIMM UNIT C2-10	9/26/2024	10:00 AM	BRINE
32	KOGELMANN C1-10	9/26/2024	11:00 AM	BRINE
33	HILLARD 2-26	10/1/2024	10:00 AM	BRINE
34	SEDLAR JOHNSON 3-26	10/1/2024	10:15 AM	BRINE
35	BEAR LAKE 1-22	10/1/2024	11:30 AM	BRINE
36	ST. MANISTEE 1-23	10/1/2024	12:30 PM	BRINE
37	ST. CHESTER 1-19	10/2/2024	8:15 AM	BRINE
38	DAVENPORT 4-5	10/3/2024	1:45 PM	BRINE
39	RAPID RIVER 1-24	10/3/2024	1:00 PM	BRINE
40	ST. LOUD B3-29	10/4/2024	10:00 AM	BRINE
41	LK HORICON CORP 2-12	9/21/2024	12:00 PM	BRINE
42	ST. FREDRIC 1-10	10/1/2024	3:00 PM	BRINE
43	BUREK B4-8	10/4/2024	10:00 AM	BRINE
44	ST. ALBERT A2-25	10/4/2024	8:00 AM	BRINE
45	LARRISON C4-21	10/4/2024	2:00 PM	BRINE
46	NORTH MICHIGAN LAND & OIL 1-22	10/9/2024	9:30 AM	BRINE



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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
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830 Robinwood Court
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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 102124-3

GTA SAMPLE NO: 1

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/19/2024

TIME SAMPLED: 11:30 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

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	31,000	200	mg/L (PPM)	MR	11/8/2024	EPA 3005A
MAGNESIUM DISS EPA 6020A	4,800	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	7,900	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 1

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/19/2024

TIME SAMPLED: 11:30 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: STACK JEWELL 1-29

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)	310	10	mg/L (PPM)	TR	11/5/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/5/2024
CHLORIDE EPA 300.0	310,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	5.5	0.10	s.u.	TR	11/5/2024
SPECIFIC GRAVITY SM 2710F	1.25	-	-	TR	11/5/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	340,000	5.0	mg/L (PPM)	TR	11/18/2024

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

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 2

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/19/2024

TIME SAMPLED: 12:30 PM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

SAMPLE MATRIX: BRINE

LER

SAMPLE ID: PARCELLS 2-9

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	2.0	mg/L (PPM)	MR	11/8/2024	EPA 3005A
CALCIUM DISS EPA 6020A	38,000	200	mg/L (PPM)	MR	11/8/2024	EPA 3005A
IRON TOTAL EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3020A
MAGNESIUM DISS EPA 6020A	4,100	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	6,800	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 2

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/19/2024

TIME SAMPLED: 12:30 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: PARCELS 2-9

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)	320	10	mg/L (PPM)	TR	11/5/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/5/2024
CHLORIDE EPA 300.0	330,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	5.5	0.10	s.u.	TR	11/5/2024
RESISTIVITY SM 2510A	1.6	-	ohms x cm	TR	11/4/2024
SPECIFIC GRAVITY SM 2710F	1.27	-	-	TR	11/5/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC/TR	10/24/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	380,000	5.0	mg/L (PPM)	TR	11/18/2024

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GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 3

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/19/2024

TIME SAMPLED: 1:00 PM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

SAMPLE MATRIX: BRINE

LER

SAMPLE ID: CLEON 1-11

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	2.0	mg/L (PPM)	MR	11/8/2024	EPA 3005A
CALCIUM DISS EPA 6020A	17,000	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
IRON TOTAL EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3020A
MAGNESIUM DISS EPA 6020A	2,000	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	4,400	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A

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GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 3

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/19/2024

TIME SAMPLED: 1:00 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: CLEON 1-11

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)	200	10	mg/L (PPM)	TR	11/5/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/5/2024
CHLORIDE EPA 300.0	180,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	6.2	0.10	s.u.	TR	11/5/2024
RESISTIVITY SM 2510A	2.6	-	ohms x cm	TR	11/4/2024
SPECIFIC GRAVITY SM 2710F	1.18	-	-	TR	11/5/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC/TR	10/24/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	240,000	5.0	mg/L (PPM)	TR	11/18/2024

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 102124-3

GTA SAMPLE NO: 4

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/19/2024

TIME SAMPLED: 2:36 PM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

LER

SAMPLE MATRIX: BRINE

SAMPLE ID: WALTON 6-16

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	200	mg/L (PPM)	MR	11/8/2024	EPA 3005A
MAGNESIUM DISS EPA 6020A	2,100	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	3,900	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 4

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/19/2024

TIME SAMPLED: 2:36 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: WALTON 6-16

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)	190	10	mg/L (PPM)	TR	11/5/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/5/2024
CHLORIDE EPA 300.0	330,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	5.5	0.10	s.u.	TR	11/5/2024
SPECIFIC GRAVITY SM 2710F	1.24	-	-	TR	11/5/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	330,000	5.0	mg/L (PPM)	TR	11/18/2024

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 5

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/19/2024

TIME SAMPLED: 2:45 PM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

SAMPLE MATRIX: BRINE

LER

SAMPLE ID: ST. 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	30,000	200	mg/L (PPM)	MR	11/8/2024	EPA 3005A
MAGNESIUM DISS EPA 6020A	2,900	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	5,100	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 5

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/19/2024

TIME SAMPLED: 2:45 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. 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)	610	10	mg/L (PPM)	TR	11/5/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/5/2024
CHLORIDE EPA 300.0	290,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	6.0	0.10	s.u.	TR	11/5/2024
SPECIFIC GRAVITY SM 2710F	1.23	-	-	TR	11/5/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	310,000	5.0	mg/L (PPM)	TR	11/18/2024

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 102124-3

GTA SAMPLE NO: 6

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/19/2024

TIME SAMPLED: 3:01 PM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

LER

SAMPLE MATRIX: BRINE

SAMPLE ID: BOWMAN ST MAYFIELD 6-19A

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	40,000	200	mg/L (PPM)	MR	11/8/2024	EPA 3005A
MAGNESIUM DISS EPA 6020A	2,000	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	8,000	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 6

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/19/2024

TIME SAMPLED: 3:01 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: BOWMAN ST MAYFIELD 6-19A

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)	410	10	mg/L (PPM)	TR	11/5/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/5/2024
CHLORIDE EPA 300.0	240,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	5.9	0.10	s.u.	TR	11/5/2024
SPECIFIC GRAVITY SM 2710F	1.21	-	-	TR	11/5/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	290,000	5.0	mg/L (PPM)	TR	11/18/2024

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 102124-3

GTA SAMPLE NO: 7

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/21/2024

TIME SAMPLED: 8:00 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

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	35,000	200	mg/L (PPM)	MR	11/8/2024	EPA 3005A
MAGNESIUM DISS EPA 6020A	3,300	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	9,800	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 7

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/21/2024

TIME SAMPLED: 8:00 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. FOREST 1-24

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)	110	10	mg/L (PPM)	TR	11/5/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/5/2024
CHLORIDE EPA 300.0	240,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	6.1	0.10	s.u.	TR	11/5/2024
SPECIFIC GRAVITY SM 2710F	1.20	-	-	TR	11/5/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	290,000	5.0	mg/L (PPM)	TR	11/18/2024

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

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 8

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/21/2024

TIME SAMPLED: 9:30 AM

DATE RECEIVED: 10/21/2024

SAMPLED BY: MI

TIME RECEIVED: 1:34 PM

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	27,000	200	mg/L (PPM)	MR	11/8/2024	EPA 3005A
MAGNESIUM DISS EPA 6020A	2,200	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	3,600	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 8

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/21/2024

TIME SAMPLED: 9:30 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: SALLING HANSON 4-4

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)	170	10	mg/L (PPM)	TR	11/5/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/5/2024
CHLORIDE EPA 300.0	240,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	5.9	0.10	s.u.	TR	11/5/2024
SPECIFIC GRAVITY SM 2710F	1.19	-	-	TR	11/5/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	310,000	5.0	mg/L (PPM)	TR	11/18/2024

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

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 9

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/23/2024

TIME SAMPLED: 8:00 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

SAMPLE MATRIX: BRINE

LER

SAMPLE ID: SPRINGDALE 1-28

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	50,000	200	mg/L (PPM)	MR	11/8/2024	EPA 3005A
MAGNESIUM DISS EPA 6020A	3,000	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	5,400	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 9

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/23/2024

TIME SAMPLED: 8:00 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: SPRINGDALE 1-28

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)	330	10	mg/L (PPM)	TR	11/6/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/6/2024
CHLORIDE EPA 300.0	380,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	5.1	0.10	s.u.	TR	11/6/2024
SPECIFIC GRAVITY SM 2710F	1.32	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	430,000	5.0	mg/L (PPM)	TR	11/18/2024

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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

GTA PROJECT NO: 102124-3

GTA SAMPLE NO: 10

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/21/2024

TIME SAMPLED: 11:00 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. CASE & HAACK 1-27

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	2.0	mg/L (PPM)	MR	11/8/2024	EPA 3005A
CALCIUM DISS EPA 6020A	11,000	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
IRON TOTAL EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3020A
MAGNESIUM DISS EPA 6020A	2,000	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	6,700	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 10

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/21/2024

TIME SAMPLED: 11:00 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. CASE & HAACK 1-27

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)	78	10	mg/L (PPM)	TR	11/6/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/6/2024
CHLORIDE EPA 300.0	130,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	6.7	0.10	s.u.	TR	11/6/2024
RESISTIVITY SM 2510A	2.1	-	ohms x cm	TR	11/4/2024
SPECIFIC GRAVITY SM 2710F	1.10	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC/TR	10/24/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	150,000	5.0	mg/L (PPM)	TR	11/18/2024

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

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 11

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 9:00 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

SAMPLE MATRIX: BRINE

LER

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	31	2.0	mg/L (PPM)	MR	11/8/2024	EPA 3005A
CALCIUM DISS EPA 6020A	240	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
IRON TOTAL EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3020A
MAGNESIUM DISS EPA 6020A	340	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	9,700	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 11

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 9:00 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: HASTINGS C4-7

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)	180	10	mg/L (PPM)	TR	11/6/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/6/2024
CHLORIDE EPA 300.0	67,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	5.6	0.10	s.u.	TR	11/6/2024
RESISTIVITY SM 2510A	5.7	-	ohms x cm	TR	11/4/2024
SPECIFIC GRAVITY SM 2710F	1.08	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC/TR	10/24/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	95,000	5.0	mg/L (PPM)	TR	11/18/2024

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DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 102124-3

GTA SAMPLE NO: 12

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 7:00 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

LER

SAMPLE MATRIX: BRINE

SAMPLE ID: DIAMOND D2-13

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	51	2.0	mg/L (PPM)	MR	11/8/2024	EPA 3005A
CALCIUM DISS EPA 6020A	860	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
IRON TOTAL EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3020A
MAGNESIUM DISS EPA 6020A	660	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	14,000	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 12

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 7:00 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)	520	10	mg/L (PPM)	TR	11/6/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/6/2024
CHLORIDE EPA 300.0	120,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	7.3	0.10	s.u.	TR	11/6/2024
RESISTIVITY SM 2510A	3.6	-	ohms x cm	TR	11/4/2024
SPECIFIC GRAVITY SM 2710F	1.11	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC/TR	10/24/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	160,000	5.0	mg/L (PPM)	TR	11/18/2024

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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

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 13

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 8:00 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

SAMPLE MATRIX: BRINE

LER

SAMPLE ID: ST. OSSINEKE B3-36

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
BARIUM DISS EPA 6020A	19	2.0	mg/L (PPM)	MR	11/8/2024	EPA 3005A
CALCIUM DISS EPA 6020A	140	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
IRON TOTAL EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3020A
MAGNESIUM DISS EPA 6020A	250	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	7,500	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 13

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 8:00 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. OSSINEKE B3-36

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)	980	10	mg/L (PPM)	TR	11/6/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/6/2024
CHLORIDE EPA 300.0	52,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	8.0	0.10	s.u.	TR	11/6/2024
RESISTIVITY SM 2510A	7.9	-	ohms x cm	TR	11/4/2024
SPECIFIC GRAVITY SM 2710F	1.06	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC/TR	10/24/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	73,000	5.0	mg/L (PPM)	TR	11/18/2024

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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

GTA PROJECT NO: 102124-3

GTA SAMPLE NO: 14

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 11:00 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

LER

SAMPLE MATRIX: BRINE

SAMPLE ID: WEETH C1-4

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
BARIUM DISS EPA 6020A	5.2	2.0	mg/L (PPM)	MR	11/8/2024	EPA 3005A
CALCIUM DISS EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
IRON TOTAL EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3020A
MAGNESIUM DISS EPA 6020A	64	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	3,700	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 14

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 11:00 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: WEETH 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)	1,500	10	mg/L (PPM)	TR	11/6/2024
ALKALINITY SM 4500CO2D (CARBONATE)	69	10	mg/L (PPM)	TR	11/6/2024
CHLORIDE EPA 300.0	16,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	8.7	0.10	s.u.	TR	11/6/2024
RESISTIVITY SM 2510A	23	-	ohms x cm	TR	11/4/2024
SPECIFIC GRAVITY SM 2710F	1.01	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC/TR	10/24/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	23,000	5.0	mg/L (PPM)	TR	11/18/2024

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

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 15

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 9:00 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

SAMPLE MATRIX: BRINE

LER

SAMPLE ID: MANN A2-21

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	10	2.0	mg/L (PPM)	MR	11/8/2024	EPA 3005A
CALCIUM DISS EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
IRON TOTAL EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3020A
MAGNESIUM DISS EPA 6020A	140	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	5,900	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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2-+COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 15

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 9:00 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: MANN A2-21

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)	1,600	10	mg/L (PPM)	TR	11/6/2024
ALKALINITY SM 4500CO2D (CARBONATE)	49	10	mg/L (PPM)	TR	11/6/2024
CHLORIDE EPA 300.0	24,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	8.5	0.10	s.u.	TR	11/6/2024
RESISTIVITY SM 2510A	15	-	ohms x cm	TR	11/4/2024
SPECIFIC GRAVITY SM 2710F	1.01	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC/TR	10/24/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	36,000	5.0	mg/L (PPM)	TR	11/18/2024

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

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 16

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 1:00 PM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

SAMPLE MATRIX: BRINE

LER

SAMPLE ID: HAAS HUNT CLUB 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	17	2.0	mg/L (PPM)	MR	11/8/2024	EPA 3005A
CALCIUM DISS EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
IRON TOTAL EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3020A
MAGNESIUM DISS EPA 6020A	190	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	6,200	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 16

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 1:00 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: HAAS HUNT CLUB C3-33

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)	500	10	mg/L (PPM)	TR	11/6/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/6/2024
CHLORIDE EPA 300.0	38,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	8.2	0.10	s.u.	TR	11/6/2024
RESISTIVITY SM 2510A	11	-	ohms x cm	TR	11/4/2024
SPECIFIC GRAVITY SM 2710F	1.00	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC/TR	10/24/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	55,000	5.0	mg/L (PPM)	TR	11/18/2024

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DISS = DISSOLVED



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GTA PROJECT NO: 102124-3

GTA SAMPLE NO: 17

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 8:45 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. BLUE LAKE G1-17

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	8,600	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
MAGNESIUM DISS EPA 6020A	770	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	1,900	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

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DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 17

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 8:45 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. BLUE LAKE G1-17

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)	270	10	mg/L (PPM)	TR	11/6/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/6/2024
CHLORIDE EPA 300.0	74,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	6.5	0.10	s.u.	TR	11/6/2024
SPECIFIC GRAVITY SM 2710F	1.08	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	120,000	5.0	mg/L (PPM)	TR	11/18/2024

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LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED



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GTA PROJECT NO: 102124-3

GTA SAMPLE NO: 18

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 12:15 PM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

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	42,000	200	mg/L (PPM)	MR	11/8/2024	EPA 3005A
MAGNESIUM DISS EPA 6020A	1,800	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	5,700	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 18

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 12:15 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)	33	10	mg/L (PPM)	TR	11/6/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/6/2024
CHLORIDE EPA 300.0	310,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	4.8	0.10	s.u.	TR	11/6/2024
SPECIFIC GRAVITY SM 2710F	1.21	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	350,000	5.0	mg/L (PPM)	TR	11/18/2024

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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

GTA PROJECT NO: 102124-3

GTA SAMPLE NO: 19

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 9:00 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

LER

SAMPLE MATRIX: BRINE

SAMPLE ID: NICKERSON 5-1

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	31,000	200	mg/L (PPM)	MR	11/8/2024	EPA 3005A
MAGNESIUM DISS EPA 6020A	1,400	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	1,800	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A

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LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 19

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 9:00 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: NICKERSON 5-1

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)	200	10	mg/L (PPM)	TR	11/6/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/6/2024
CHLORIDE EPA 300.0	170,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	6.2	0.10	s.u.	TR	11/6/2024
SPECIFIC GRAVITY SM 2710F	1.16	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	220,000	5.0	mg/L (PPM)	TR	11/18/2024

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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

GTA PROJECT NO: 102124-3

GTA SAMPLE NO: 20

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 7:30 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

LER

SAMPLE MATRIX: BRINE

SAMPLE ID: 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	41,000	200	mg/L (PPM)	MR	11/8/2024	EPA 3005A
MAGNESIUM DISS EPA 6020A	1,700	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	2,900	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A

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LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 20

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 7:30 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: 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)	170	10	mg/L (PPM)	TR	11/6/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/6/2024
CHLORIDE EPA 300.0	250,00	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	5.5	0.10	s.u.	TR	11/6/2024
SPECIFIC GRAVITY SM 2710F	1.24	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	310,000	5.0	mg/L (PPM)	TR	11/18/2024

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

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 21

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 9:50 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

SAMPLE MATRIX: BRINE

LER

SAMPLE ID: WHITEWATER 1-32

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
BARIUM DISS EPA 6020A	ND	2.0	mg/L (PPM)	MR	11/8/2024	EPA 3005A
CALCIUM DISS EPA 6020A	52,000	200	mg/L (PPM)	MR	11/8/2024	EPA 3005A
IRON TOTAL EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3020A
MAGNESIUM DISS EPA 6020A	1,800	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	3,100	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 21

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 9:50 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: WHITEWATER 1-32

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	11/7/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/7/2024
CHLORIDE EPA 300.0	250,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	5.9	0.10	s.u.	TR	11/7/2024
RESISTIVITY SM 2510A	2.0	-	ohms x cm	TR	11/4/2024
SPECIFIC GRAVITY SM 2710F	1.22	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC/TR	10/24/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	300,000	5.0	mg/L (PPM)	TR	11/18/2024

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DISS = DISSOLVED



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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 102124-3

GTA SAMPLE NO: 22

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 1:00 PM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

LER

SAMPLE MATRIX: BRINE

SAMPLE ID: 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	32,000	200	mg/L (PPM)	MR	11/8/2024	EPA 3005A
MAGNESIUM DISS EPA 6020A	1,400	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	2,700	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 22

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 1:00 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: WHITEWATER 1-36

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)	200	10	mg/L (PPM)	TR	11/7/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/7/2024
CHLORIDE EPA 300.0	190,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	6.0	0.10	s.u.	TR	11/7/2024
SPECIFIC GRAVITY SM 2710F	1.18	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	240,000	5.0	mg/L (PPM)	TR	11/18/2024

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

GTA PROJECT NO: 102124-3

GTA SAMPLE NO: 23

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 9:50 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

LER

SAMPLE MATRIX: BRINE

SAMPLE ID: 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	43,000	200	mg/L (PPM)	MR	11/8/2024	EPA 3005A
MAGNESIUM DISS EPA 6020A	2,400	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	3,900	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 23

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 9:50 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: WHITEWATER 2-32

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)	310	10	mg/L (PPM)	TR	11/7/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/7/2024
CHLORIDE EPA 300.0	240,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	5.9	0.10	s.u.	TR	11/7/2024
SPECIFIC GRAVITY SM 2710F	1.11	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	290,000	5.0	mg/L (PPM)	TR	11/18/2024

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LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED



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PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

SAMPLED BY: MI
LER

SAMPLE ID: WHITEWATER B1-35

GTA PROJECT NO: 102124-3

GTA SAMPLE NO: 24

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 1:00 PM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

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>
CALCIUM DISS EPA 6020A	44,000	200	mg/L (PPM)	MR	11/8/2024	EPA 3005A
MAGNESIUM DISS EPA 6020A	1,900	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	3,900	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 24

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 1:00 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: WHITEWATER B1-35

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)	200	10	mg/L (PPM)	TR	11/7/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/7/2024
CHLORIDE EPA 300.0	220,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	5.8	0.10	s.u.	TR	11/7/2024
SPECIFIC GRAVITY SM 2710F	1.19	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	250,000	5.0	mg/L (PPM)	TR	11/18/2024

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

GTA PROJECT NO: 102124-3

GTA SAMPLE NO: 25

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/23/2024

TIME SAMPLED: 10:30 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

LER

SAMPLE MATRIX: BRINE

SAMPLE ID: MAPLE GROVE 1-6

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	41,000	200	mg/L (PPM)	MR	11/8/2024	EPA 3005A
MAGNESIUM DISS EPA 6020A	2,300	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	4,500	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A

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LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 25

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/23/2024

TIME SAMPLED: 10:30 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: MAPLE GROVE 1-6

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	11/7/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/7/2024
CHLORIDE EPA 300.0	270,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	5.5	0.10	s.u.	TR	11/7/2024
SPECIFIC GRAVITY SM 2710F	1.22	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	350,000	5.0	mg/L (PPM)	TR	11/18/2024

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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

GTA PROJECT NO: 102124-3

GTA SAMPLE NO: 26

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/23/2024

TIME SAMPLED: 9:22 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

LER

SAMPLE MATRIX: BRINE

SAMPLE ID: MAPLE GROVE 1-16

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	9,100	200	mg/L (PPM)	MR	11/8/2024	EPA 3005A
MAGNESIUM DISS EPA 6020A	3,100	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	7,700	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 26

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/23/2024

TIME SAMPLED: 9:22 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: MAPLE GROVE 1-16

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)	190	10	mg/L (PPM)	TR	11/7/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/7/2024
CHLORIDE EPA 300.0	240,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	5.7	0.10	s.u.	TR	11/7/2024
SPECIFIC GRAVITY SM 2710F	1.19	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	330,000	5.0	mg/L (PPM)	TR	11/18/2024

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DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 102124-3

GTA SAMPLE NO: 27

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/23/2024

TIME SAMPLED: 1:40 PM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

LER

SAMPLE MATRIX: BRINE

SAMPLE ID: BEAR LAKE 1-13

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	11,000	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
MAGNESIUM DISS EPA 6020A	1,000	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	3,600	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 27

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/23/2024

TIME SAMPLED: 1:40 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: BEAR LAKE 1-13

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)	190	10	mg/L (PPM)	TR	11/7/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/7/2024
CHLORIDE EPA 300.0	99,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	6.9	0.10	s.u.	TR	11/7/2024
SPECIFIC GRAVITY SM 2710F	1.10	-	-	TR	11/6/2024
SULFATE EPA 9038	580	80	mg/L (PPM)	TR/MP	11/5/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	140,000	5.0	mg/L (PPM)	TR	11/18/2024

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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

GTA PROJECT NO: 102124-3

GTA SAMPLE NO: 28

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 9:30 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

LER

SAMPLE MATRIX: BRINE

SAMPLE ID: BEAR LAKE 1-32

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	20,000	200	mg/L (PPM)	MR	11/8/2024	EPA 3005A
MAGNESIUM DISS EPA 6020A	2,000	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	7,800	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A

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LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 28

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 9:30 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: BEAR LAKE 1-32

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)	190	10	mg/L (PPM)	TR	11/7/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/7/2024
CHLORIDE EPA 300.0	200,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	6.0	0.10	s.u.	TR	11/7/2024
SPECIFIC GRAVITY SM 2710F	1.19	-	-	TR	11/6/2024
SULFATE EPA 9038	220	80	mg/L (PPM)	TR/MP	11/5/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	270,000	5.0	mg/L (PPM)	TR	11/18/2024

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

GTA PROJECT NO: 102124-3

GTA SAMPLE NO: 29

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 7:45 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

LER

SAMPLE MATRIX: BRINE

SAMPLE ID: MANISTEE 1-15

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	29,000	200	mg/L (PPM)	MR	11/8/2024	EPA 3005A
MAGNESIUM DISS EPA 6020A	3,700	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	7,400	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 29

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 7:45 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: MANISTEE 1-15

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)	340	10	mg/L (PPM)	TR	11/7/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/7/2024
CHLORIDE EPA 300.0	350,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	5.5	0.10	s.u.	TR	11/7/2024
SPECIFIC GRAVITY SM 2710F	1.26	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	380,000	5.0	mg/L (PPM)	TR	11/18/2024

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

GTA PROJECT NO: 102124-3

GTA SAMPLE NO: 30

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 8:30 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

LER

SAMPLE MATRIX: BRINE

SAMPLE ID: FALK 1-4

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
BARIUM DISS EPA 6020A	ND	2.0	mg/L (PPM)	MR	11/8/2024	EPA 3005A
CALCIUM DISS EPA 6020A	30,000	200	mg/L (PPM)	MR	11/8/2024	EPA 3005A
IRON TOTAL EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3020A
MAGNESIUM DISS EPA 6020A	3,300	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	6,600	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 30

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/24/2024

TIME SAMPLED: 8:30 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: FALK 1-4

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)	400	10	mg/L (PPM)	TR	11/7/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/7/2024
CHLORIDE EPA 300.0	350,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	5.6	0.10	s.u.	TR	11/7/2024
RESISTIVITY SM 2510A	1.7	-	ohms x cm	TR	11/5/2024
SPECIFIC GRAVITY SM 2710F	1.19	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC/TR	10/24/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	420,000	5.0	mg/L (PPM)	TR	11/18/2024

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

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 31

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/26/2024

TIME SAMPLED: 10:00 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

SAMPLE MATRIX: BRINE

LER

SAMPLE ID: TIMM UNIT C2-10

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	3.4	2.0	mg/L (PPM)	MR	11/8/2024	EPA 3005A
CALCIUM DISS EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
IRON TOTAL EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3020A
MAGNESIUM DISS EPA 6020A	33	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	1,300	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A

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DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 31

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/26/2024

TIME SAMPLED: 10:00 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: TIMM UNIT C2-10

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)	1,900	10	mg/L (PPM)	TR	11/7/2024
ALKALINITY SM 4500CO2D (CARBONATE)	140	10	mg/L (PPM)	TR	11/7/2024
CHLORIDE EPA 300.0	6,300	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	8.9	0.10	s.u.	TR	11/7/2024
RESISTIVITY SM 2510A	43	-	ohms x cm	TR	11/5/2024
SPECIFIC GRAVITY SM 2710F	1.02	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC/TR	10/24/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	12,000	5.0	mg/L (PPM)	TR	11/18/2024

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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

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 32

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/26/2024

TIME SAMPLED: 11:00 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

SAMPLE MATRIX: BRINE

LER

SAMPLE ID: KOGELMANN C1-10

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	25	2.0	mg/L (PPM)	MR	11/8/2024	EPA 3005A
CALCIUM DISS EPA 6020A	94	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
IRON TOTAL EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3020A
MAGNESIUM DISS EPA 6020A	220	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	6,000	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 32

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/26/2024

TIME SAMPLED: 11:00 AM

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)	270	10	mg/L (PPM)	TR	11/7/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/7/2024
CHLORIDE EPA 300.0	32,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	7.6	0.10	s.u.	TR	11/7/2024
RESISTIVITY SM 2510A	12	-	ohms x cm	TR	11/5/2024
SPECIFIC GRAVITY SM 2710F	1.03	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC/TR	10/24/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	54,000	5.0	mg/L (PPM)	TR	11/18/2024

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

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 33

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 10/1/2024

TIME SAMPLED: 10:00 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

SAMPLE MATRIX: BRINE

LER

SAMPLE ID: HILLARD 2-26

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	2.0	mg/L (PPM)	MR	11/8/2024	EPA 3005A
CALCIUM DISS EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
IRON TOTAL EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3020A
MAGNESIUM DISS EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 33

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 10/1/2024

TIME SAMPLED: 10:00 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: HILLARD 2-26

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)	220	10	mg/L (PPM)	TR	11/7/2024
ALKALINITY SM 4500CO2D (CARBONATE)	16	10	mg/L (PPM)	TR	11/7/2024
CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	KC/TR	11/11/2024
pH EPA 150.1 - LAB	8.9	0.10	s.u.	TR	11/7/2024
RESISTIVITY SM 2510A	2,700	-	ohms x cm	TR	11/5/2024
SPECIFIC GRAVITY SM 2710F	1.01	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC/TR	10/24/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	240	5.0	mg/L (PPM)	TR	11/18/2024

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

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 34

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 10/1/2024

TIME SAMPLED: 10:15 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

SAMPLE MATRIX: BRINE

LER

SAMPLE ID: SEDLAR JOHNSON 3-26

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	2.0	mg/L (PPM)	MR	11/8/2024	EPA 3005A
CALCIUM DISS EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
IRON TOTAL EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3020A
MAGNESIUM DISS EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A

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LOD = LIMIT OF DETECTION

DISS = DISSOLVED

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 34

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 10/1/2024

TIME SAMPLED: 10:15 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: SEDLAR JOHNSON 3-26

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	11/7/2024
ALKALINITY SM 4500CO2D (CARBONATE)	12	10	mg/L (PPM)	TR	11/7/2024
CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	KC/TR	11/11/2024
pH EPA 150.1 - LAB	8.8	0.10	s.u.	TR	11/7/2024
RESISTIVITY SM 2510A	2,800	-	ohms x cm	TR	11/5/2024
SPECIFIC GRAVITY SM 2710F	1.00	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC/TR	10/24/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	600	5.0	mg/L (PPM)	TR	11/18/2024

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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

GTA PROJECT NO: 102124-3

GTA SAMPLE NO: 35

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 10/1/2024

TIME SAMPLED: 11:30 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

LER

SAMPLE MATRIX: BRINE

SAMPLE ID: BEAR LAKE 1-22

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	2,600	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
MAGNESIUM DISS EPA 6020A	250	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	940	20	mg/L (PPM)	MR	11/8/2024	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: BEAR LAKE 1-22

GTA PROJECT NO: 102124-3

GTA SAMPLE NO: 35

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

DATE SAMPLED: 10/1/2024

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)	270	10	mg/L (PPM)	TR	11/7/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/7/2024
CHLORIDE EPA 300.0	33,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	6.9	0.10	s.u.	TR	11/7/2024
SPECIFIC GRAVITY SM 2710F	1.02	-	-	TR	11/6/2024
SULFATE EPA 9038	140	80	mg/L (PPM)	TR/MP	11/5/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	56,000	5.0	mg/L (PPM)	TR	11/18/2024

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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

GTA PROJECT NO: 102124-3

GTA SAMPLE NO: 36

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 10/1/2024

TIME SAMPLED: 12:30 PM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. MANISTEE 1-23

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	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
MAGNESIUM DISS EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 36

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 10/1/2024

TIME SAMPLED: 12:30 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. MANISTEE 1-23

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	11/7/2024
ALKALINITY SM 4500CO2D (CARBONATE)	17	10	mg/L (PPM)	TR	11/7/2024
CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	KC/TR	11/11/2024
pH EPA 150.1 - LAB	8.9	0.10	s.u.	TR	11/7/2024
SPECIFIC GRAVITY SM 2710F	1.02	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	220	5.0	mg/L (PPM)	TR	11/18/2024

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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

GTA PROJECT NO: 102124-3

GTA SAMPLE NO: 37

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 10/2/2024

TIME SAMPLED: 8:15 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. CHESTER 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	15,000	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
MAGNESIUM DISS EPA 6020A	1,200	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	5,800	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 37

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 10/2/2024

TIME SAMPLED: 8:15 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. CHESTER 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)	220	10	mg/L (PPM)	TR	11/7/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/7/2024
CHLORIDE EPA 300.0	100,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	6.4	0.10	s.u.	TR	11/7/2024
SPECIFIC GRAVITY SM 2710F	1.12	-	-	TR	11/6/2024
SULFATE EPA 9038	480	80	mg/L (PPM)	TR/MP	11/5/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	150,000	5.0	mg/L (PPM)	TR	11/18/2024

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

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 38

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 10/3/2024

TIME SAMPLED: 1:45 PM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

SAMPLE MATRIX: BRINE

LER

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	ND	2.0	mg/L (PPM)	MR	11/8/2024	EPA 3005A
CALCIUM DISS EPA 6020A	25,000	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
IRON TOTAL EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3020A
MAGNESIUM DISS EPA 6020A	2,600	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	7,000	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 38

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 10/3/2024

TIME SAMPLED: 1:45 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: DAVENPORT 4-5

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	11/7/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/7/2024
CHLORIDE EPA 300.0	270,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	5.4	0.10	s.u.	TR	11/7/2024
RESISTIVITY SM 2510A	1.9	-	ohms x cm	TR	11/5/2024
SPECIFIC GRAVITY SM 2710F	1.23	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC/TR	10/24/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	360,000	5.0	mg/L (PPM)	TR	11/18/2024

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

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 39

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 10/3/2024

TIME SAMPLED: 1:00 PM

DATE RECEIVED: 10/21/2024

SAMPLED BY: MI

TIME RECEIVED: 1:34 PM

LER

SAMPLE MATRIX: BRINE

SAMPLE ID: RAPID RIVER 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	6,800	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
MAGNESIUM DISS EPA 6020A	580	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	960	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 39

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 10/3/2024

TIME SAMPLED: 1:00 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: RAPID RIVER 1-24

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)	100	10	mg/L (PPM)	TR	11/7/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/7/2024
CHLORIDE EPA 300.0	54,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	6.8	0.10	s.u.	TR	11/7/2024
SPECIFIC GRAVITY SM 2710F	1.06	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	85,000	5.0	mg/L (PPM)	TR	11/18/2024

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

GTA PROJECT NO: 102124-3

GTA SAMPLE NO: 40

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 10/4/2024

TIME SAMPLED: 10:00 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

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	880	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
MAGNESIUM DISS EPA 6020A	300	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	12,000	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 40

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 10/4/2024

TIME SAMPLED: 10:00 AM

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)	160	10	mg/L (PPM)	TR	11/7/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/7/2024
CHLORIDE EPA 300.0	87,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	6.6	0.10	s.u.	TR	11/7/2024
SPECIFIC GRAVITY SM 2710F	1.09	-	-	TR	11/6/2024
SULFATE EPA 9038	140	80	mg/L (PPM)	TR/MP	11/5/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	130,000	5.0	mg/L (PPM)	TR	11/18/2024

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

GTA PROJECT NO: 102124-3

GTA SAMPLE NO: 41

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 9/21/2024

TIME SAMPLED: 12:00 PM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

LER

SAMPLE MATRIX: BRINE

SAMPLE ID: LK HORICON CORP 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>
BARIUM DISS EPA 6020A	ND	2.0	mg/L (PPM)	MR	11/8/2024	EPA 3005A
CALCIUM DISS EPA 6020A	15,000	200	mg/L (PPM)	MR	11/8/2024	EPA 3005A
IRON TOTAL EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3020A
MAGNESIUM DISS EPA 6020A	1,600	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	1,900	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 41

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 9/21/2024

TIME SAMPLED: 12:00 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: LK HORICON CORP 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)	220	10	mg/L (PPM)	TR	11/7/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/7/2024
CHLORIDE EPA 300.0	210,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	5.9	0.10	s.u.	TR	11/7/2024
RESISTIVITY SM 2510A	2.2	-	ohms x cm	TR	11/5/2024
SPECIFIC GRAVITY SM 2710F	1.22	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC/TR	10/24/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	280,000	5.0	mg/L (PPM)	TR	11/18/2024

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

GTA PROJECT NO: 102124-3

GTA SAMPLE NO: 42

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 10/1/2024

TIME SAMPLED: 3:00 PM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. FREDRIC 1-10

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	16,000	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
MAGNESIUM DISS EPA 6020A	860	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	4,200	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 42

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 10/1/2024

TIME SAMPLED: 3:00 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. FREDRIC 1-10

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)	110	10	mg/L (PPM)	TR	11/8/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/8/2024
CHLORIDE EPA 300.0	170,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	5.8	0.10	s.u.	TR	11/8/2024
SPECIFIC GRAVITY SM 2710F	1.16	-	-	TR	11/6/2024
SULFATE EPA 9038	320	80	mg/L (PPM)	TR/MP	11/5/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	240,000	5.0	mg/L (PPM)	TR	11/18/2024

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:

LOCATION: EPA-UIC ANNUAL SAMPLES

SAMPLED BY: MI
LER

SAMPLE ID: BUREK B4-8

GTA PROJECT NO: 102124-3

GTA SAMPLE NO: 43

DATE SAMPLED: 10/4/2024

TIME SAMPLED: 10:00 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

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	6.9	2.0	mg/L (PPM)	MR	11/8/2024	EPA 3005A
CALCIUM DISS EPA 6020A	16,000	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
IRON TOTAL EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3020A
MAGNESIUM DISS EPA 6020A	860	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	4,200	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 43

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 10/4/2024

TIME SAMPLED: 10:00 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: BUREK B4-8

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)	1,600	10	mg/L (PPM)	TR	11/8/2024
ALKALINITY SM 4500CO2D (CARBONATE)	37	10	mg/L (PPM)	TR	11/8/2024
CHLORIDE EPA 300.0	8,900	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	8.4	0.10	s.u.	TR	11/8/2024
RESISTIVITY SM 2510A	49	-	ohms x cm	TR	11/5/2024
SPECIFIC GRAVITY SM 2710F	1.02	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC/TR	10/24/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	11,000	5.0	mg/L (PPM)	TR	11/18/2024

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

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 44

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 10/4/2024

TIME SAMPLED: 8:00 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

SAMPLE MATRIX: BRINE

LER

SAMPLE ID: ST. ALBERT A2-25

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	8.6	2.0	mg/L (PPM)	MR	11/8/2024	EPA 3005A
CALCIUM DISS EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
IRON TOTAL EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3020A
MAGNESIUM DISS EPA 6020A	74	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	2,100	20	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 44

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 10/4/2024

TIME SAMPLED: 8:00 AM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: ST. ALBERT A2-25

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)	33	10	mg/L (PPM)	TR	11/8/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/8/2024
CHLORIDE EPA 300.0	20,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	6.0	0.10	s.u.	TR	11/8/2024
RESISTIVITY SM 2510A	19	-	ohms x cm	TR	11/5/2024
SPECIFIC GRAVITY SM 2710F	1.02	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC/TR	10/24/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	33,000	5.0	mg/L (PPM)	TR	11/18/2024

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

GTA PROJECT NO: 102124-3

PROJECT NO:

GTA SAMPLE NO: 45

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 10/4/2024

TIME SAMPLED: 2:00 PM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

SAMPLE MATRIX: BRINE

LER

SAMPLE ID: LARRISON C4-21

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	86	2.0	mg/L (PPM)	MR	11/8/2024	EPA 3005A
CALCIUM DISS EPA 6020A	3,200	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
IRON TOTAL EPA 6020A	ND	20	mg/L (PPM)	MR	11/8/2024	EPA 3020A
MAGNESIUM DISS EPA 6020A	1,100	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	25,000	200	mg/L (PPM)	MR	11/8/2024	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: 102124-3

PROJECT NO:

GTA SAMPLE NO: 45

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

MI

DATE SAMPLED: 10/4/2024

TIME SAMPLED: 2:00 PM

SAMPLED BY: LER

SAMPLE MATRIX: BRINE

SAMPLE ID: LARRISON C4-21

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)	44	10	mg/L (PPM)	TR	11/8/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/8/2024
CHLORIDE EPA 300.0	200,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	6.4	0.10	s.u.	TR	11/8/2024
RESISTIVITY SM 2510A	2.4	-	ohms x cm	TR	11/5/2024
SPECIFIC GRAVITY SM 2710F	1.17	-	-	TR	11/6/2024
SULFATE EPA 9038	ND	80	mg/L (PPM)	TR/MP	11/5/2024
SULFIDE SM 4500S D	ND	1.0	mg/L (PPM)	KC/TR	10/24/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	260,000	5.0	mg/L (PPM)	TR	11/18/2024

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: 102124-3

GTA SAMPLE NO: 46

PROJECT NO:

LOCATION: EPA-UIC ANNUAL SAMPLES

DATE SAMPLED: 10/9/2024

TIME SAMPLED: 9:30 AM

DATE RECEIVED: 10/21/2024

TIME RECEIVED: 1:34 PM

SAMPLED BY: MI

LER

SAMPLE MATRIX: BRINE

SAMPLE ID: NORTH MICHIGAN LAND & OIL 1-22

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	19,000	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
MAGNESIUM DISS EPA 6020A	910	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A
SODIUM DISS EPA 6020A	4,300	20	mg/L (PPM)	MR	11/8/2024	EPA 3005A

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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)	130	10	mg/L (PPM)	TR	11/8/2024
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	11/8/2024
CHLORIDE EPA 300.0	140,000	2,000	mg/L (PPM)	TR	11/5/2024
pH EPA 150.1 - LAB	6.3	0.10	s.u.	TR	11/8/2024
SPECIFIC GRAVITY SM 2710F	1.14	-	-	TR	11/6/2024
SULFATE EPA 9038	390	80	mg/L (PPM)	TR/MP	11/5/2024
TOTAL DISSOLVED SOLIDS EPA 160.1	210,000	5.0	mg/L (PPM)	TR	11/18/2024

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

Page 1 of 4

CHAIN OF CUSTODY

PROJECT NUMBER ANNUALS	SITE NAME/ADDRESS KALKASKA MI	COMPANY/NAME Lambda Energy
SAMPLED BY VARIOUS	COMPANY Same	GTA PROJECT # 102124-3

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	Stack Jewell 1-29	9/19/24	11:30am	Brine	Parameter #1
2	Parcells 2-9	9/19/24	12:30pm	Brine	Parameter #2
3	Cleon 1-11	9/19/24	1pm	Brine	" "
4	Walton 6-16	9/19/24	2:36pm	Brine	Parameter #1
5	St Springdale 2-36	9/19/24	2:45pm	Brine	" "
6	Bowman St Mayfield 6-19A	9/19/24	3:04pm	Brine	" "
7	St Forest 1-24	9/21/24	8am	Brine	" "
8	Salling Hanson 4-4	9/21/24	9:30am	Brine	" "
9	Springdale 1-28	9/23/24	8am	Brine	" "
10	St Case & Haack 1-27	9/21/24	11am	Brine	Parameter #2
11	Hastings C4-7	9/24/24	9am	Brine	" "
12	Diamond D2-13	9/24/24	7am	Brine	" "
13	St. Ossineke B3-36	9/24/24	8am	Brine	" "
14	Weerth C1-4	9/24/24	11am	Brine	" "
15	MANN A2-21	9/24/24	9am	Brine	" "

BILL TO:

Temp Rec: ☐

On Ice? ☐ ☐

REPORT TO:

RELEASED BY

DATE/TIME

RECEIVED BY

DATE/TIME

[Signature] 10/21/24 1:33pm *[Signature]* 10/28/24 1:34p

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

Page 2 of 4

CHAIN OF CUSTODY

PROJECT NUMBER Annual-5	SITE NAME/ADDRESS KALKASKA MI	COMPANY/NAME Lambda Energy
SAMPLED BY VARIOUS	COMPANY same	GTA PROJECT # 102124-3

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
16	HAAS Hunt Club C3-33	9/24/24	1pm	Brine	Parameter #2
17	St Blue Lake G1-17	9/24/24	8:45am	Brine	Parameter #1
18	St KALKASKA 2-12	9/24/24	12:15pm	Brine	" "
19	Nickerson 5-1	9/24/24	9am	Brine	" "
20	Paradise 1-19	9/24/24	7:30am	Brine	" "
21	Whitewater 1-32	9/24/24	9:50am	Brine	Parameter #2
22	Whitewater 1-36	9/24/24	1pm	Brine	Parameter #1
23	Whitewater 2-32	9/24/24	9:50am	Brine	" "
24	White water B1-35	9/24/24	1pm	Brine	" "
25	Maple Grove 1-6	9/23/24	10:30am	Brine	" "
26	Maple Grove 1-16	9/23/24	9:22am	Brine	" "
27	Bear Lake 1-13	9/23/24	1:40pm	Brine	" "
28	Bear Lake 1-32	9/24/24	9:30am	Brine	" "
29	Manistee Manistee 1-15	9/24/24	7:45am	Brine	" "
30	FAIK 1-4	9/24/24	8:30am	Brine	Parameter #2

BILL TO:	TempRec: ☐ Y ☐ N On Ice? ☐ ☐	REPORT TO:
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RELEASED BY [Signature]	DATE/TIME 10/21/24 1:33pm	RECEIVED BY [Signature]	DATE/TIME 10/21/24 1:34p
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REQUESTED TAT ☐ STANDARD ☐ 1 BUSINESS DAY ☐ 2 BUSINESS DAYS ☐ 3 BUSINESS DAYS

CHAIN OF CUSTODY

PROJECT NUMBER ANNUAL'S	SITE NAME/ADDRESS KALKASKA MI	COMPANY/NAME Lambda Energy
SAMPLED BY VARIOUS	COMPANY Same	GTA PROJECT # 102124-3

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
31	Timm C2-10	9/26/24	10AM	BRINE	Parameter #2
32	Kogelmann CH-10	9/26/24	11AM	BRINE	" "
33	Hilliard 2-26	10/1/24	10AM	BRINE	" "
34	Sedlar Johnson 3-26	10/1/24	10:15AM	BRINE	" "
35	Bear Lake 1-22	10/1/24	11:30AM	BRINE	Parameter #1
36	St Manistee 1-23	10/1/24	12:30pm	BRINE	" "
37	St Chester 1-19	10/2/24	8:15AM	BRINE	" "
38	Davenport 4-5	10/3/24	1:45pm	BRINE	Parameter #2
39	Rapid River 1-24	10/3/24	1pm	BRINE	Parameter #1
40	St Louis B3-29	10/4/24	10AM	BRINE	" "
41	LK Horizon Corp 2-12	9/21/24	12pm	BRINE	Parameter #2
42	St Frederic 1-10	10/1/24	3pm	BRINE	Parameter #1
43	Bueek B4-8	10/4/24	10AM	BRINE	Parameter #2
44	St Albert 2-25	10/4/24	8AM	BRINE	" "
45	LARRISON C4-21	10/4/24	2pm	BRINE	" "

BILL TO:

TempRec: ☐ Y ☐ N

On Ice? ☐ ☐

REPORT TO:

RELEASED BY

DATE/TIME

RECEIVED BY

DATE/TIME

L. M. L. 10/21/24 1:33pm

H. C. 10/24/24 1:34pm

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

