



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: 24.023
GTA ProjNo: 041525-4

Site Addr: 02/18/24 AVERY SMITH LINE RELEASE
NICKERSON VALLEY CPF

Sampled By: KWB/HURON
Date Rec: 4/15/2025
Time Rec: 12:20 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	SUMP 2 BEFORE	4/11/2025		WATER
2	SUMP 2 AFTER	4/11/2025		WATER
3	SUMP 3 BEFORE	4/11/2025		WATER
4	SUMP 3 AFTER	4/11/2025		WATER
5	MW-3/OW-1	4/11/2025		WATER
6	TW-1	4/11/2025		WATER
7	TW-2	4/11/2025		WATER
8	TW-3	4/11/2025		WATER
9	TW-4	4/11/2025		WATER
10	TW-5	4/11/2025		WATER
11	TW-6	4/11/2025		WATER
12	TW-7	4/11/2025		WATER
13	TW-8	4/11/2025		WATER
14	TW-9	4/11/2025		WATER
15	TW-10	4/11/2025		WATER
16	TW-11	4/11/2025		WATER
17	TW-12	4/11/2025		WATER

ELECTRONIC SIGNATURE REPORT. This is a final report for the following pages of data for the samples specified above. All analysis was performed by the methods stated and all quality control measures required were completed. All quality control information is available upon request.

Kirk Chase

Kirk L. Chase/Chemist
Grand Traverse Analytical
830 Robinwood Court
Traverse City, MI 49686
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Fx: 231-929-0894
SP: 231-590-0291
kirk@gtanalytical.com

COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 24.023
 LOCATION: 02/18/24 AVERY SMITH LINE RELEASE
 NICKERSON VALLEY CPF
 MI
 SAMPLED BY: KWB/HURON

GTA PROJECT NO: 041525-4
 GTA SAMPLE NO: 1
 DATE SAMPLED: 4/11/2025
 TIME SAMPLED:
 DATE RECEIVED: 4/15/2025
 TIME RECEIVED: 12:20 PM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: SUMP 2 BEFORE CHLORIDE EPA 300.0	420	10	mg/L (PPM)	KC/TR	4/22/2025	WATER

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 24.023
LOCATION: 02/18/24 AVERY SMITH LINE RELEASE
NICKERSON VALLEY CPF
MI
SAMPLED BY: KWB/HURON

GTA PROJECT NO: 041525-4
GTA SAMPLE NO: 2
DATE SAMPLED: 4/11/2025
TIME SAMPLED:
DATE RECEIVED: 4/15/2025
TIME RECEIVED: 12:20 PM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: SUMP 2 AFTER CHLORIDE EPA 300.0	480	50	mg/L (PPM)	KC/TR	4/22/2025	WATER

ND = NOT DETECTED, RESULT < LOD
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 24.023
 LOCATION: 02/18/24 AVERY SMITH LINE RELEASE
 NICKERSON VALLEY CPF
 MI
 SAMPLED BY: KWB/HURON

GTA PROJECT NO: 041525-4
 GTA SAMPLE NO: 3
 DATE SAMPLED: 4/11/2025
 TIME SAMPLED:
 DATE RECEIVED: 4/15/2025
 TIME RECEIVED: 12:20 PM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
SAMPLE ID:	SUMP 3 BEFORE	820	100	mg/L (PPM)	KC/TR	4/22/2025	WATER
	CHLORIDE EPA 300.0						

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 24.023
LOCATION: 02/18/24 AVERY SMITH LINE RELEASE
NICKERSON VALLEY CPF
MI
SAMPLED BY: KWB/HURON

GTA PROJECT NO: 041525-4
GTA SAMPLE NO: 4
DATE SAMPLED: 4/11/2025
TIME SAMPLED:
DATE RECEIVED: 4/15/2025
TIME RECEIVED: 12:20 PM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: SUMP 3 AFTER CHLORIDE EPA 300.0	740	50	mg/L (PPM)	KC/TR	4/22/2025	WATER

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 24.023
 LOCATION: 02/18/24 AVERY SMITH LINE RELEASE
 NICKERSON VALLEY CPF
 MI
 SAMPLED BY: KWB/HURON

GTA PROJECT NO: 041525-4
 GTA SAMPLE NO: 5
 DATE SAMPLED: 4/11/2025
 TIME SAMPLED:
 DATE RECEIVED: 4/15/2025
 TIME RECEIVED: 12:20 PM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: MW-3/OW-1 CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	KC/TR	4/22/2025	WATER

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 24.023
LOCATION: 02/18/24 AVERY SMITH LINE RELEASE
NICKERSON VALLEY CPF
MI
SAMPLED BY: KWB/HURON

GTA PROJECT NO: 041525-4
GTA SAMPLE NO: 6
DATE SAMPLED: 4/11/2025
TIME SAMPLED:
DATE RECEIVED: 4/15/2025
TIME RECEIVED: 12:20 PM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: TW-1 CHLORIDE EPA 300.0	110	10	mg/L (PPM)	KC/TR	4/22/2025	WATER

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 24.023
LOCATION: 02/18/24 AVERY SMITH LINE RELEASE
NICKERSON VALLEY CPF
MI
SAMPLED BY: KWB/HURON

GTA PROJECT NO: 041525-4
GTA SAMPLE NO: 7
DATE SAMPLED: 4/11/2025
TIME SAMPLED:
DATE RECEIVED: 4/15/2025
TIME RECEIVED: 12:20 PM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: TW-2 CHLORIDE EPA 300.0	340	10	mg/L (PPM)	KC/TR	4/22/2025	WATER

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 24.023
 LOCATION: 02/18/24 AVERY SMITH LINE RELEASE
 NICKERSON VALLEY CPF
 MI
 SAMPLED BY: KWB/HURON

GTA PROJECT NO: 041525-4
 GTA SAMPLE NO: 8
 DATE SAMPLED: 4/11/2025
 TIME SAMPLED:
 DATE RECEIVED: 4/15/2025
 TIME RECEIVED: 12:20 PM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: TW-3 CHLORIDE EPA 300.0	37	10	mg/L (PPM)	KC/TR	4/22/2025	WATER

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 24.023
 LOCATION: 02/18/24 AVERY SMITH LINE RELEASE
 NICKERSON VALLEY CPF
 MI
 SAMPLED BY: KWB/HURON

GTA PROJECT NO: 041525-4
 GTA SAMPLE NO: 9
 DATE SAMPLED: 4/11/2025
 TIME SAMPLED:
 DATE RECEIVED: 4/15/2025
 TIME RECEIVED: 12:20 PM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: TW-4 CHLORIDE EPA 300.0	640	50	mg/L (PPM)	KC/TR	4/22/2025	WATER

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 24.023
LOCATION: 02/18/24 AVERY SMITH LINE RELEASE
NICKERSON VALLEY CPF
MI
SAMPLED BY: KWB/HURON

GTA PROJECT NO: 041525-4
GTA SAMPLE NO: 10
DATE SAMPLED: 4/11/2025
TIME SAMPLED:
DATE RECEIVED: 4/15/2025
TIME RECEIVED: 12:20 PM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: TW-5 CHLORIDE EPA 300.0	700	50	mg/L (PPM)	KC/TR	4/22/2025	WATER

ND = NOT DETECTED, RESULT < LOD
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 24.023
 LOCATION: 02/18/24 AVERY SMITH LINE RELEASE
 NICKERSON VALLEY CPF
 MI
 SAMPLED BY: KWB/HURON

GTA PROJECT NO: 041525-4
 GTA SAMPLE NO: 11
 DATE SAMPLED: 4/11/2025
 TIME SAMPLED:
 DATE RECEIVED: 4/15/2025
 TIME RECEIVED: 12:20 PM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
SAMPLE ID: TW-6	CHLORIDE EPA 300.0	16	10	mg/L (PPM)	KC/TR	4/22/2025	WATER

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 24.023
LOCATION: 02/18/24 AVERY SMITH LINE RELEASE
NICKERSON VALLEY CPF
MI
SAMPLED BY: KWB/HURON

GTA PROJECT NO: 041525-4
GTA SAMPLE NO: 12
DATE SAMPLED: 4/11/2025
TIME SAMPLED:
DATE RECEIVED: 4/15/2025
TIME RECEIVED: 12:20 PM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: TW-7 CHLORIDE EPA 300.0	190	10	mg/L (PPM)	KC/TR	4/22/2025	WATER

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COMPANY: LAMBDA ENERGY RESOURCES, LLC GTA PROJECT NO: 041525-4
PROJECT NO: 24.023 GTA SAMPLE NO: 13
LOCATION: 02/18/24 AVERY SMITH LINE RELEASE DATE SAMPLED: 4/11/2025
NICKERSON VALLEY CPF TIME SAMPLED:
DATE RECEIVED: 4/15/2025
TIME RECEIVED: 12:20 PM
MI
SAMPLED BY: KWB/HURON

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
SAMPLE ID: TW-8	CHLORIDE EPA 300.0	280	10	mg/L (PPM)	KC/TR	4/22/2025	WATER

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 24.023
 LOCATION: 02/18/24 AVERY SMITH LINE RELEASE
 NICKERSON VALLEY CPF
 MI
 SAMPLED BY: KWB/HURON

GTA PROJECT NO: 041525-4
 GTA SAMPLE NO: 14
 DATE SAMPLED: 4/11/2025
 TIME SAMPLED:
 DATE RECEIVED: 4/15/2025
 TIME RECEIVED: 12:20 PM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: TW-9 CHLORIDE EPA 300.0	14	10	mg/L (PPM)	KC/TR	4/22/2025	WATER

ND = NOT DETECTED, RESULT < LOD
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 24.023
 LOCATION: 02/18/24 AVERY SMITH LINE RELEASE
 NICKERSON VALLEY CPF
 MI
 SAMPLED BY: KWB/HURON

GTA PROJECT NO: 041525-4
 GTA SAMPLE NO: 15
 DATE SAMPLED: 4/11/2025
 TIME SAMPLED:
 DATE RECEIVED: 4/15/2025
 TIME RECEIVED: 12:20 PM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: TW-10 CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	KC/TR	4/22/2025	WATER

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 24.023
 LOCATION: 02/18/24 AVERY SMITH LINE RELEASE
 NICKERSON VALLEY CPF
 MI
 SAMPLED BY: KWB/HURON

GTA PROJECT NO: 041525-4
 GTA SAMPLE NO: 16
 DATE SAMPLED: 4/11/2025
 TIME SAMPLED:
 DATE RECEIVED: 4/15/2025
 TIME RECEIVED: 12:20 PM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: TW-11 CHLORIDE EPA 300.0	ND	10	mg/L (PPM)	KC/TR	4/22/2025	WATER

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
 PROJECT NO: 24.023
 LOCATION: 02/18/24 AVERY SMITH LINE RELEASE
 NICKERSON VALLEY CPF
 MI
 SAMPLED BY: KWB/HURON

GTA PROJECT NO: 041525-4
 GTA SAMPLE NO: 17
 DATE SAMPLED: 4/11/2025
 TIME SAMPLED:
 DATE RECEIVED: 4/15/2025
 TIME RECEIVED: 12:20 PM

SAMPLE ANALYSIS

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample Matrix</u>
	SAMPLE ID: TW-12 CHLORIDE EPA 300.0	190	10	mg/L (PPM)	KC/TR	4/22/2025	WATER

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CHAIN OF CUSTODY

PROJECT NUMBER 24.023	SITE NAME/ADDRESS 02/18/24 Avery Smith Line Release at the Nickerson Valley CPF	COMPANY/NAME Lambda Energy Resources, LLC
SAMPLED BY KWB/AS, Huron Engineering and Surveying, Inc.	COMPANY	GTA PROJECT # 041525-4

SAMPLE INFORMATION						Field Conductivity mS/cm
#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS	
1	Sump 2 Before	4/11/25		Water	Chloride	2.3
2	Sump 2 After					2.3
3	Sump 3 Before					3.3
4	Sump 3 After					2.8
5	MW3/OW1					0.40
6	TW 1					0.90
7	TW 2					1.6
8	TW 3					0.63
9	TW 4					2.8
10	TW 5					3.0
11	TW 6					0.36
12	TW 7					0.91
13	TW 8					1.3
14	TW 9					0.43
15	TW 10					0.56

BILL TO: Lambda, Nick Summerland	TempRec: <input type="checkbox"/> N/A On Ice? <input type="checkbox"/> <input checked="" type="checkbox"/> Not Applicable	REPORT TO: Kim Wallis-Burke kim.wallis-burke@huroncsi.com
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RELEASED BY Kimberly Wallis-Burke	DATE/TIME	RECEIVED BY Alpena UPS Alpena 4/15/25 12:20	DATE/TIME 4/14/25
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REQUESTED TAT STANDARD 1 BUSINESS DAY 2 BUSINESS DAYS 3 BUSINESS DAYS

