

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: LAMBDA ENERGY RESOURCES, LLC

Name:

ClientProj: 20-122

GTA ProjNo: 021622-2

Site Addr: KALKASKA 5

Sampled By: WPM/OMPC

Date Rec: 2/16/2022

Time Rec: 4:40 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-6D	2/15/2022	12:20 PM	WATER
2	MW-8D	2/15/2022	1:20 PM	WATER
3	MW-9D	2/15/2022	1:50 PM	WATER
4	MW-10D	2/15/2022	10:35 AM	WATER
5	MW-21DR	2/15/2022	10:25 AM	WATER
6	MW-24D	2/15/2022	12:45 PM	WATER
7	MW-26D	2/15/2022	11:50 AM	WATER
8	MW-31D	2/15/2022	3:30 PM	WATER
9	MW-36D	2/15/2022	5:15 PM	WATER
10	MW-37D	2/15/2022	5:30 PM	WATER
11	MW-38D	2/15/2022	5:00 PM	WATER
12	MW-40D	2/15/2022	4:00 PM	WATER
13	MW-48	2/15/2022	10:10 AM	WATER
14	RW-3	2/15/2022	2:00 PM	WATER
15	MW-35	2/16/2022	2:40 PM	WATER
16	MW-39D	2/16/2022	12:45 PM	WATER
17	MW-42D	2/16/2022	12:20 PM	WATER
18	MW-43D	2/16/2022	11:40 AM	WATER
19	MW-45D	2/16/2022	1:20 PM	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
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PH: 231-929-0905

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 20-122
LOCATION: KALKASKA 5
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-10D

GTA PROJECT NO: 021622-2
GTA SAMPLE NO: 4
DATE SAMPLED: 2/15/2022
TIME SAMPLED: 10:35 AM
DATE RECEIVED: 2/16/2022
TIME RECEIVED: 4:40 PM
SAMPLED BY: WPM/OMPC

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		2/17/2022	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION

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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 20-122
LOCATION: KALKASKA 5
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-26D

GTA PROJECT NO: 021622-2
GTA SAMPLE NO: 7
DATE SAMPLED: 2/15/2022
TIME SAMPLED: 11:50 AM
DATE RECEIVED: 2/16/2022
TIME RECEIVED: 4:40 PM
SAMPLED BY: WPM/OMPC

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Extracted</u>	<u>Date Complete</u>	<u>Prep Method</u>
Benzene	2.3	1.0	ug/L (PPB)	MR		2/17/2022	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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COMPANY: LAMBDA ENERGY RESOURCES, LLC
PROJECT NO: 20-122
LOCATION: KALKASKA 5
MI
SAMPLE MATRIX: WATER
SAMPLE ID: MW-35

GTA PROJECT NO: 021622-2
GTA SAMPLE NO: 15
DATE SAMPLED: 2/16/2022
TIME SAMPLED: 2:40 PM
DATE RECEIVED: 2/16/2022
TIME RECEIVED: 4:40 PM
SAMPLED BY: WPM/OMPC

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	1.0	ug/L (PPB)	MR		2/17/2022	EPA 5030B
Toluene	ND	1.0					
Ethylbenzene	ND	1.0					
Xylene(Total)	ND	3.0					
1,2,4-Trimethylbenzene	ND	1.0					
1,3,5-Trimethylbenzene	ND	1.0					
Naphthalene	ND	5.0					
2-Methylnaphthalene	ND	5.0					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.
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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 021622-2

PROJECT NO: 20-122

GTA SAMPLE NO: 1

LOCATION: KALKASKA 5

DATE SAMPLED: 2/15/2022

TIME SAMPLED: 12:20 PM

DATE RECEIVED: 2/16/2022

TIME RECEIVED: 4:40 PM

MI

SAMPLED BY: WPM/OMPC

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-6D

CHLORIDE EPA 300.0

Concentration

28

LOD

10

Units

mg/L (PPM)

Analyst

TR

Date Completed

2/22/2022

Sample

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 021622-2

PROJECT NO: 20-122

GTA SAMPLE NO: 2

LOCATION: KALKASKA 5

DATE SAMPLED: 2/15/2022

TIME SAMPLED: 1:20 PM

DATE RECEIVED: 2/16/2022

TIME RECEIVED: 4:40 PM

MI

SAMPLED BY: WPM/OMPC

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-8D

CHLORIDE EPA 300.0

Concentration

LOD

Units

Analyst

Date Completed

Sample

ND

10

mg/L (PPM)

TR

2/22/2022

WATER

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LOD = LIMIT OF DETECTION

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

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 20-122

LOCATION: KALKASKA 5

GTA PROJECT NO: 021622-2

GTA SAMPLE NO: 3

DATE SAMPLED: 2/15/2022

TIME SAMPLED: 1:50 PM

DATE RECEIVED: 2/16/2022

TIME RECEIVED: 4:40 PM

SAMPLED BY: MI
WPM/OMPC**SAMPLE ANALYSIS****No: Analysis**

SAMPLE ID: MW-9D

CHLORIDE EPA 300.0

Concentration

ND

LOD

10

Units

mg/L (PPM)

Analyst

TR

Date Completed

2/22/2022

Sample

WATER

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LOD = LIMIT OF DETECTION

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 021622-2

PROJECT NO: 20-122

GTA SAMPLE NO: 4

LOCATION: KALKASKA 5

DATE SAMPLED: 2/15/2022

TIME SAMPLED: 10:35 AM

DATE RECEIVED: 2/16/2022

TIME RECEIVED: 4:40 PM

SAMPLED BY: MI
WPM/OMPC**SAMPLE ANALYSIS****No: Analysis**

SAMPLE ID: MW-10D

CHLORIDE EPA 300.0

Concentration

12

LOD

10

Units

mg/L (PPM)

Analyst

TR

Date Completed

2/22/2022

Sample

WATER

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

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GTA PROJECT NO: 021622-2

PROJECT NO: 20-122

GTA SAMPLE NO: 5

LOCATION: KALKASKA 5

DATE SAMPLED: 2/15/2022

TIME SAMPLED: 10:25 AM

DATE RECEIVED: 2/16/2022

TIME RECEIVED: 4:40 PM

SAMPLED BY: MI
WPM/OMPC**SAMPLE ANALYSIS****No: Analysis**

SAMPLE ID: MW-21DR

CHLORIDE EPA 300.0

Concentration

32

LOD

10

Units

mg/L (PPM)

Analyst

TR

Date Completed

2/22/2022

Sample

WATER

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LOD = LIMIT OF DETECTION

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

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 021622-2

PROJECT NO: 20-122

GTA SAMPLE NO: 6

LOCATION: KALKASKA 5

DATE SAMPLED: 2/15/2022

TIME SAMPLED: 12:45 PM

DATE RECEIVED: 2/16/2022

TIME RECEIVED: 4:40 PM

SAMPLED BY: MI
WPM/OMPC**SAMPLE ANALYSIS****No: Analysis**

SAMPLE ID: MW-24D

CHLORIDE EPA 300.0

Concentration

13

LOD

10

Units

mg/L (PPM)

Analyst

TR

Date Completed

2/22/2022

Sample

WATER

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

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 20-122

LOCATION: KALKASKA 5

GTA PROJECT NO: 021622-2

GTA SAMPLE NO: 7

DATE SAMPLED: 2/15/2022

TIME SAMPLED: 11:50 AM

DATE RECEIVED: 2/16/2022

TIME RECEIVED: 4:40 PM

SAMPLED BY: MI
WPM/OMPC**SAMPLE ANALYSIS****No: Analysis**

SAMPLE ID: MW-26D

CHLORIDE EPA 300.0

Concentration

46

LOD

10

Units

mg/L (PPM)

Analyst

TR

Date Completed

2/22/2022

Sample

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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



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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 021622-2

PROJECT NO: 20-122

GTA SAMPLE NO: 8

LOCATION: KALKASKA 5

DATE SAMPLED: 2/15/2022

TIME SAMPLED: 3:30 PM

DATE RECEIVED: 2/16/2022

TIME RECEIVED: 4:40 PM

SAMPLED BY: MI
WPM/OMPC

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-31D

CHLORIDE EPA 300.0

<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample</u>
45	10	mg/L (PPM)	TR	2/22/2022	WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 20-122

LOCATION: KALKASKA 5

GTA PROJECT NO: 021622-2

GTA SAMPLE NO: 9

DATE SAMPLED: 2/15/2022

TIME SAMPLED: 5:15 PM

DATE RECEIVED: 2/16/2022

TIME RECEIVED: 4:40 PM

SAMPLED BY: MI
WPM/OMPC**SAMPLE ANALYSIS****No: Analysis**

SAMPLE ID: MW-36D

CHLORIDE EPA 300.0

<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Sample</u>
13	10	mg/L (PPM)	TR	2/22/2022	WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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



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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 021622-2

PROJECT NO: 20-122

GTA SAMPLE NO: 10

LOCATION: KALKASKA 5

DATE SAMPLED: 2/15/2022

TIME SAMPLED: 5:30 PM

DATE RECEIVED: 2/16/2022

TIME RECEIVED: 4:40 PM

MI

SAMPLED BY: WPM/OMPC

SAMPLE ANALYSIS

No: Analysis

SAMPLE ID: MW-37D

CHLORIDE EPA 300.0

Concentration

61

LOD

10

Units

mg/L (PPM)

Analyst

TR

Date Completed

2/22/2022

Sample

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 20-122

LOCATION: KALKASKA 5

GTA PROJECT NO: 021622-2

GTA SAMPLE NO: 11

DATE SAMPLED: 2/15/2022

TIME SAMPLED: 5:00 PM

DATE RECEIVED: 2/16/2022

TIME RECEIVED: 4:40 PM

SAMPLED BY: MI
WPM/OMPC**SAMPLE ANALYSIS****No: Analysis**

SAMPLE ID: MW-38D

CHLORIDE EPA 300.0

Concentration

16

LOD

10

Units

mg/L (PPM)

Analyst

TR

Date Completed

2/22/2022

Sample

WATER

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LOD = LIMIT OF DETECTION

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

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 021622-2

PROJECT NO: 20-122

GTA SAMPLE NO: 12

LOCATION: KALKASKA 5

DATE SAMPLED: 2/15/2022

TIME SAMPLED: 4:00 PM

DATE RECEIVED: 2/16/2022

TIME RECEIVED: 4:40 PM

SAMPLED BY: MI
WPM/OMPC**SAMPLE ANALYSIS****No: Analysis**

SAMPLE ID: MW-40D

CHLORIDE EPA 300.0

Concentration

50

LOD

10

Units

mg/L (PPM)

Analyst

TR

Date Completed

2/22/2022

Sample

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 021622-2

PROJECT NO: 20-122

GTA SAMPLE NO: 13

LOCATION: KALKASKA 5

DATE SAMPLED: 2/15/2022

TIME SAMPLED: 10:10 AM

DATE RECEIVED: 2/16/2022

TIME RECEIVED: 4:40 PM

MI

SAMPLED BY: WPM/OMPC

SAMPLE ANALYSIS**No: Analysis**

SAMPLE ID: MW-48

CHLORIDE EPA 300.0

Concentration

95

LOD

10

Units

mg/L (PPM)

Analyst

TR

Date Completed

2/22/2022

Sample

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 021622-2

PROJECT NO: 20-122

GTA SAMPLE NO: 14

LOCATION: KALKASKA 5

DATE SAMPLED: 2/15/2022

TIME SAMPLED: 2:00 PM

DATE RECEIVED: 2/16/2022

TIME RECEIVED: 4:40 PM

MI

SAMPLED BY: WPM/OMPC

SAMPLE ANALYSIS**No: Analysis**

SAMPLE ID: RW-3

CHLORIDE EPA 300.0

Concentration

74

LOD

10

Units

mg/L (PPM)

Analyst

TR

Date Completed

2/22/2022

Sample

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 021622-2

GTA SAMPLE NO: 15

PROJECT NO: 20-122

LOCATION: KALKASKA 5

DATE SAMPLED: 2/16/2022

TIME SAMPLED: 2:40 PM

DATE RECEIVED: 2/16/2022

TIME RECEIVED: 4:40 PM

MI

SAMPLED BY: WPM/OMPC

SAMPLE ANALYSIS**No: Analysis**

SAMPLE ID: MW-35

CHLORIDE EPA 300.0

Concentration

ND

LOD

10

Units

mg/L (PPM)

Analyst

TR

Date Completed

2/22/2022

Sample

WATER

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LOD = LIMIT OF DETECTION

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 021622-2

PROJECT NO: 20-122

GTA SAMPLE NO: 16

LOCATION: KALKASKA 5

DATE SAMPLED: 2/16/2022

TIME SAMPLED: 12:45 PM

DATE RECEIVED: 2/16/2022

TIME RECEIVED: 4:40 PM

SAMPLED BY: MI
WPM/OMPC**SAMPLE ANALYSIS****No: Analysis**

SAMPLE ID: MW-39D

CHLORIDE EPA 300.0

Concentration

ND

LOD

10

Units

mg/L (PPM)

Analyst

TR

Date Completed

2/22/2022

Sample

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 021622-2

PROJECT NO: 20-122

GTA SAMPLE NO: 17

LOCATION: KALKASKA 5

DATE SAMPLED: 2/16/2022

TIME SAMPLED: 12:20 PM

DATE RECEIVED: 2/16/2022

TIME RECEIVED: 4:40 PM

MI

SAMPLED BY: WPM/OMPC

SAMPLE ANALYSIS**No: Analysis**

SAMPLE ID: MW-42D

CHLORIDE EPA 300.0

Concentration

17

LOD

10

Units

mg/L (PPM)

Analyst

TR

Date Completed

2/22/2022

Sample

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

**INDEPENDENT TESTING LAB**

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

PROJECT NO: 20-122

LOCATION: KALKASKA 5

GTA PROJECT NO: 021622-2

GTA SAMPLE NO: 18

DATE SAMPLED: 2/16/2022

TIME SAMPLED: 11:40 AM

DATE RECEIVED: 2/16/2022

TIME RECEIVED: 4:40 PM

SAMPLED BY: MI
WPM/OMPC**SAMPLE ANALYSIS****No: Analysis**

SAMPLE ID: MW-43D

CHLORIDE EPA 300.0

Concentration

ND

LOD

10

Units

mg/L (PPM)

Analyst

TR

Date Completed

2/22/2022

Sample

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

**INDEPENDENT TESTING LAB**

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COMPANY: LAMBDA ENERGY RESOURCES, LLC

GTA PROJECT NO: 021622-2

PROJECT NO: 20-122

GTA SAMPLE NO: 19

LOCATION: KALKASKA 5

DATE SAMPLED: 2/16/2022

TIME SAMPLED: 1:20 PM

DATE RECEIVED: 2/16/2022

TIME RECEIVED: 4:40 PM

SAMPLED BY: MI
WPM/OMPC**SAMPLE ANALYSIS****No: Analysis**

SAMPLE ID: MW-45D

CHLORIDE EPA 300.0

Concentration

44

LOD

10

Units

mg/L (PPM)

Analyst

TR

Date Completed

2/22/2022

Sample

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

CHAIN OF CUSTODY

PROJECT NUMBER 20-122	SITE NAME/ADDRESS Kalkaska S	COMPANY/NAME Lambda
SAMPLED BY WPM	COMPANY DMPC	GTA PROJECT # 021622-2

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	MW-6D	2/15/22	1220	H ₂ O	Chlorides
2	MW-8D		1320		↓
3	MW-9D		1350		
4	MW-10D		1025		HIPs, Chlorides
5	MW-21DR		1025		Chlorides
6	MW-24D		1245		↓
7	MW-26D		1150		Chlorides, HIPs
8	MW-31D		1530		Chlorides
9	MW-36D		1715		
10	MW-37D		1730		
11	MW-38D		1700		
12	MW-40D		1800		
13	MW-48		1025		
14	MW-3	✓	1400	✓	✓

BILL TO:	TempRec: ☐ 2.0°C On Ice? ☒ Y ☐ N	REPORT TO: Dan Barton
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RELEASED BY [Signature]	DATE/TIME 2-16-22 1640	RECEIVED BY [Signature]	DATE/TIME 2/16/22 1640
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REQUESTED TAT ☐ STANDARD ☐ 1 BUSINESS DAY ☐ 2 BUSINESS DAYS ☐ 3 BUSINESS DAYS

INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

CHAIN OF CUSTODY

PROJECT NUMBER 20-122	SITE NAME/ADDRESS Kalkaska 5	COMPANY/NAME Lambdon
SAMPLED BY WPM	COMPANY OMPC	GTA PROJECT # 021622-2

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
15	MW-35	2-16-22	1440	H₂O	H/Ps, Chlorides
16	MW-39D		1245		Chlorides
16	MW-42D		1220		
18	MW-43D		1140		
18	MW-45D		1320		

BILL TO:	TempRec: ☐ 2.0°C	On Ice? ☒ Y ☐ N	REPORT TO:
RELEASED BY [Signature]	DATE/TIME 2-16-22 1640	RECEIVED BY [Signature]	DATE/TIME 2/16/22 1640
REQUESTED TAT ☐ STANDARD ☐ 1 BUSINESS DAY ☐ 2 BUSINESS DAYS ☐ 3 BUSINESS DAYS			