

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: MILLER ENERGY COMPANY II, LLC
Name:
ClientProj: 2021704008.01
GTA ProjNo: 041421-4

Site Addr: MCMAHON TANK BATTERY
(AKA) ST. BUCKEY D1-36 CTB
Sampled By: MIKE RANKENS/GCES
Date Rec: 4/14/2021
Time Rec: 10:40 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	EX-W-1	4/12/2021	1:40 PM	WATER
2	EX-W-2	4/12/2021	1:45 PM	WATER
3	SW-1 (0.5')	4/12/2021	2:15 PM	SOIL
4	SW-2 (0.75')	4/12/2021	2:26 PM	SOIL
5	SW-3 (0.75')	4/12/2021	2:32 PM	SOIL
6	SW-4 (1')	4/12/2021	2:40 PM	SOIL

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

Kirk Chase

Kirk L. Chase/Chemist
Grand Traverse Analytical
830 Robinwood Court
Traverse City, MI 49686
Ph: 231-929-0905
Fx: 231-929-0894
SP: 231-590-0291
kirk@gtanalytical.com

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COMPANY: MILLER ENERGY COMPANY II, LLC

PROJECT NO: 2021704008.01

LOCATION: MCMAHON TANK BATTERY
(AKA) ST. BUCKEY D1-36 CTB

MI

SAMPLE MATRIX: WATER

SAMPLE ID: EX-W-1

GTA PROJECT NO: 041421-4

GTA SAMPLE NO: 1

DATE SAMPLED: 4/12/2021

TIME SAMPLED: 1:40 PM

DATE RECEIVED: 4/14/2021

TIME RECEIVED: 10:40 AM

SAMPLED BY: MIKE RANKENS/GCES

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		4/15/2021	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

COMPANY: MILLER ENERGY COMPANY II, LLC

GTA PROJECT NO: 041421-4

PROJECT NO: 2021704008.01

GTA SAMPLE NO: 2

LOCATION: MCMAHON TANK BATTERY
(AKA) ST. BUCKEY D1-36 CTB

DATE SAMPLED: 4/12/2021

TIME SAMPLED: 1:45 PM

MI

DATE RECEIVED: 4/14/2021

TIME RECEIVED: 10:40 AM

SAMPLE MATRIX: WATER

SAMPLE ID: EX-W-2

SAMPLED BY: MIKE RANKENS/GCES

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		4/15/2021	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					

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COMPANY: MILLER ENERGY COMPANY II, LLC

PROJECT NO: 2021704008.01

LOCATION: MCMAHON TANK BATTERY
(AKA) ST. BUCKEY D1-36 CTB

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SW-1 (0.5')

GTA PROJECT NO: 041421-4

GTA SAMPLE NO: 3

DATE SAMPLED: 4/12/2021

TIME SAMPLED: 2:15 PM

DATE RECEIVED: 4/14/2021

TIME RECEIVED: 10:40 AM

SAMPLED BY: MIKE RANKENS/GCES

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB) MR		4/13/2021	4/15/2021	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

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LOD = LIMIT OF DETECTION

COMPANY: MILLER ENERGY COMPANY II, LLC

GTA PROJECT NO: 041421-4

PROJECT NO: 2021704008.01

GTA SAMPLE NO: 4

LOCATION: MCMAHON TANK BATTERY
(AKA) ST. BUCKEY D1-36 CTB

DATE SAMPLED: 4/12/2021

TIME SAMPLED: 2:26 PM

MI

DATE RECEIVED: 4/14/2021

TIME RECEIVED: 10:40 AM

SAMPLE MATRIX: SOIL

SAMPLE ID: SW-2 (0.75')

SAMPLED BY: MIKE RANKENS/GCES

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB) MR		4/13/2021	4/15/2021	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

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LOD = LIMIT OF DETECTION

COMPANY: MILLER ENERGY COMPANY II, LLC

PROJECT NO: 2021704008.01

LOCATION: MCMAHON TANK BATTERY
(AKA) ST. BUCKEY D1-36 CTB

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SW-3 (0.75')

GTA PROJECT NO: 041421-4

GTA SAMPLE NO: 5

DATE SAMPLED: 4/12/2021

TIME SAMPLED: 2:32 PM

DATE RECEIVED: 4/14/2021

TIME RECEIVED: 10:40 AM

SAMPLED BY: MIKE RANKENS/GCES

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB)	MR	4/13/2021	4/15/2021	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

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PROJECT NO: 2021704008.01

LOCATION: MCMAHON TANK BATTERY
(AKA) ST. BUCKEY D1-36 CTB

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: SW-4 (1')

GTA PROJECT NO: 041421-4

GTA SAMPLE NO: 6

DATE SAMPLED: 4/12/2021

TIME SAMPLED: 2:40 PM

DATE RECEIVED: 4/14/2021

TIME RECEIVED: 10:40 AM

SAMPLED BY: MIKE RANKENS/GCES

**THIS SAMPLE WAS RECEIVED MEOH PRESERVED.

EPA 8260B VOLATILE ORGANICS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Complete</u>	<u>Prep Method</u>
Benzene	ND	50	ug/Kg (PPB) MR		4/13/2021	4/15/2021	EPA 5035A
Toluene	ND	50					
Ethylbenzene	ND	50					
Xylene(Total)	ND	150					
1,2,4-Trimethylbenzene	ND	50					
1,3,5-Trimethylbenzene	ND	50					
Naphthalene	ND	250					
2-Methylnaphthalene	ND	250					

SOIL/SOLIDS CONCENTRATIONS ARE DETERMINED ON A DRY WEIGHT BASIS.

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LOD = LIMIT OF DETECTION

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COMPANY: MILLER ENERGY COMPANY II, LLC

PROJECT NO: 2021704008.01

LOCATION: MCMAHON TANK BATTERY

(AKA) ST. BUCKEY D1-36 CTB

MI

SAMPLED BY: MIKE RANKENS/GCES

GTA PROJECT NO: 041421-4

GTA SAMPLE NO: 1

DATE SAMPLED: 4/12/2021

TIME SAMPLED: 1:40 PM

DATE RECEIVED: 4/14/2021

TIME RECEIVED: 10:40 AM

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</u>
	SAMPLE ID: EX-W-1						
	CHLORIDE EPA 300.0	80	10	mg/L (PPM)	TR	4/15/2021	WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

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COMPANY: MILLER ENERGY COMPANY II, LLC

GTA PROJECT NO: 041421-4

PROJECT NO: 2021704008.01

GTA SAMPLE NO: 2

LOCATION: MCMAHON TANK BATTERY

DATE SAMPLED: 4/12/2021

(AKA) ST. BUCKEY D1-36 CTB

TIME SAMPLED: 1:45 PM

DATE RECEIVED: 4/14/2021

TIME RECEIVED: 10:40 AM

MI

SAMPLED BY: MIKE RANKENS/GCES

SAMPLE ANALYSIS**No: Analysis****Concentration****LOD****Units****Analyst****Date Completed****Sample**

SAMPLE ID: EX-W-2

CHLORIDE EPA 300.0

130

10

mg/L (PPM)

TR

4/15/2021

WATER

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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



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COMPANY: MILLER ENERGY COMPANY II, LLC
PROJECT NO: 2021704008.01
LOCATION: MCMAHON TANK BATTERY
(AKA) ST. BUCKEY D1-36 CTB
MI
SAMPLED BY: MIKE RANKENS/GCES

GTA PROJECT NO: 041421-4
GTA SAMPLE NO: 3
DATE SAMPLED: 4/12/2021
TIME SAMPLED: 2:15 PM
DATE RECEIVED: 4/14/2021
TIME RECEIVED: 10:40 AM

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</u>
	SAMPLE ID: SW-1 (0.5')						
	CHLORIDE EPA 300.0	ND	110	mg/Kg (PPM)	TR	4/15/2021	SOIL

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



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COMPANY: MILLER ENERGY COMPANY II, LLC
PROJECT NO: 2021704008.01
LOCATION: MCMAHON TANK BATTERY
(AKA) ST. BUCKEY D1-36 CTB
MI
SAMPLED BY: MIKE RANKENS/GCES

GTA PROJECT NO: 041421-4
GTA SAMPLE NO: 4
DATE SAMPLED: 4/12/2021
TIME SAMPLED: 2:26 PM
DATE RECEIVED: 4/14/2021
TIME RECEIVED: 10:40 AM

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</u>
	SAMPLE ID: SW-2 (0.75')						
	CHLORIDE EPA 300.0	ND	100	mg/Kg (PPM)	TR	4/15/2021	SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY: MILLER ENERGY COMPANY II, LLC

GTA PROJECT NO: 041421-4

PROJECT NO: 2021704008.01

GTA SAMPLE NO: 5

LOCATION: MCMAHON TANK BATTERY

DATE SAMPLED: 4/12/2021

(AKA) ST. BUCKEY D1-36 CTB

TIME SAMPLED: 2:32 PM

DATE RECEIVED: 4/14/2021

TIME RECEIVED: 10:40 AM

MI

SAMPLED BY: MIKE RANKENS/GCES

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</u>
	SAMPLE ID: SW-3 (0.75')						
	CHLORIDE EPA 300.0	ND	99	mg/Kg (PPM)	TR	4/15/2021	SOIL

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

COMPANY:	MILLER ENERGY COMPANY II, LLC	GTA PROJECT NO:	041421-4
PROJECT NO:	2021704008.01	GTA SAMPLE NO:	6
LOCATION:	MCMAHON TANK BATTERY	DATE SAMPLED:	4/12/2021
	(AKA) ST. BUCKEY D1-36 CTB	TIME SAMPLED:	2:40 PM
		DATE RECEIVED:	4/14/2021
		TIME RECEIVED:	10:40 AM
	MI		
SAMPLED BY:	MIKE RANKENS/GCES		

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</u>
	SAMPLE ID: SW-4 (1')						
	CHLORIDE EPA 300.0	ND	120	mg/Kg (PPM)	TR	4/15/2021	SOIL

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

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COMPANY: MILLER ENERGY COMPANY II, LLC

NAME:

PROJECT NO: 2021704008.01

LOCATION: MCMAHON TANK BATTERY
(AKA) ST. BUCKEY D1-36 CTB
MI

GTA PROJECT NO: 041421-

SAMPLED BY: MIKE RANKENS/GCES

DATE SAMPLED: 4/12/2021

TIME SAMPLED: 2:15 PM

SAMPLE MATRIX: SOIL

DATE RECEIVED: 4/14/2021

TIME RECEIVED: 10:40 AM

MOISTURE

<u>No:</u>	<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
SAMPLE ID: SW-1 (0.5')	% MOISTURE EPA 3550C	14	0.050	% OF SAMPLE	AS	4/14/2021
SAMPLE ID: SW-2 (0.75')	% MOISTURE EPA 3550C	14	0.050	% OF SAMPLE	AS	4/14/2021
SAMPLE ID: SW-3 (0.75')	% MOISTURE EPA 3550C	8.6	0.050	% OF SAMPLE	AS	4/14/2021
SAMPLE ID: SW-4 (1')	% MOISTURE EPA 3550C	21	0.050	% OF SAMPLE	AS	4/14/2021

CHAIN OF CUSTODY

PROJECT NUMBER 2021704008.01	SITE NAME/ADDRESS McMahon Tank Battery (AKA) St. Buckeye DI-36 CTB)	COMPANY/NAME Miller Energy Company II, LLC
SAMPLED BY Mike Rankens	COMPANY Gosling Czubak	GTA PROJECT # 041421-4

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
1	EX-W-1	4/12/2021	1340	Water	BTEX + 4 AND Chloride
2	EX-W-2	4/12/2021	1345	Water	BTEX + 4 AND Chloride
3	SW-1 (0.5')	4/12/2021	1415	Soil	BTEX + 4 AND Chloride
4	SW-2 (0.75')	4/12/2021	1426	Soil	BTEX + 4 AND Chloride
5	SW-3 (0.75')	4/12/2021	1432	Soil	BTEX + 4 AND Chloride
6	SW-4 (1')	4/12/2021	1440	Soil	BTEX + 4 AND Chloride

BILL TO:

Miller Energy Company II, LLC

REPORT TO:

**Laura Dyke - Miller
Eric Vincke - Gosling**

RELEASED BY

DATE/TIME

Mike Rankens 4/12/2021 @ 2020
GCES Cold Storage 4/13/2021 @ 0720
Mike Rankens 4/13/2021 @ 1920
GCES Cold Storage 4/14/2021 @ 0830

RECEIVED BY

DATE/TIME

GCES Cold Storage 4/12/2021 @ 2020
Mike Rankens 4/13/2021 @ 0720
GCES Cold Storage 4/13/2021 @ 1920
Mike Rankens 4/14/2021 @ 0830

REQUESTED TAT

☒ **STANDARD**

☐ **1 BUSINESS DAY**

☐ **2 BUSINESS DAYS**

☐ **3 BUSINESS DAYS**

Mike Rankens 4/14/2021 @ 1040 **ANY** 4/14/21 @ 1040 **REC 402 on file**