

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

[www.gtanalytical.com](http://www.gtanalytical.com)

Company: MILLER ENERGY COMPANY II, LLC  
Name:  
ClientProj: 2023704006  
GTA ProjNo: 091323-4

Site Addr: BUCLENBERGER WELLHEAD

Sampled By: E. VINCKE/GCES  
Date Rec: 9/13/2023  
Time Rec: 9:25 AM

| Sample No. | Sample ID | Date Sampled | Time Sampled | Sample Matrix |
|------------|-----------|--------------|--------------|---------------|
| 1          | GS-1      | 9/12/2023    | 11:23 AM     | SOIL          |
| 2          | GS-2      | 9/12/2023    | 11:31 AM     | SOIL          |
| 3          | GS-3      | 9/12/2023    | 11:35 AM     | SOIL          |
| 4          | GS-4      | 9/12/2023    | 11:45 AM     | 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](mailto:kirk@gtanalytical.com)

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COMPANY: MILLER ENERGY COMPANY II, LLC

PROJECT NO: 2023704006

LOCATION: BUCLENBERGER WELLHEAD

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: GS-1

GTA PROJECT NO: 091323-4

GTA SAMPLE NO: 1

DATE SAMPLED: 9/12/2023

TIME SAMPLED: 11:23 AM

DATE RECEIVED: 9/13/2023

TIME RECEIVED: 9:25 AM

SAMPLED BY: E. VINCKE/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><br><u>Extracted</u> | <u>Date</u><br><u>Completed</u> | <u>Prep Method</u> |
|------------------------|----------------------|------------|----------------|----------------|---------------------------------|---------------------------------|--------------------|
| Benzene                | ND                   | 50         | ug/Kg (PPB) MR |                | 9/12/2023                       | 9/14/2023                       | 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.

ND = NOT DETECTED, RESULT &lt; LOD

LOD = LIMIT OF DETECTION

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COMPANY: MILLER ENERGY COMPANY II, LLC

PROJECT NO: 2023704006

LOCATION: BUCLENBERGER WELLHEAD

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: GS-2

GTA PROJECT NO: 091323-4

GTA SAMPLE NO: 2

DATE SAMPLED: 9/12/2023

TIME SAMPLED: 11:31 AM

DATE RECEIVED: 9/13/2023

TIME RECEIVED: 9:25 AM

SAMPLED BY: E. VINCKE/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><br><u>Extracted</u> | <u>Date</u><br><u>Completed</u> | <u>Prep Method</u> |
|------------------------|----------------------|------------|----------------|----------------|---------------------------------|---------------------------------|--------------------|
| Benzene                | ND                   | 50         | ug/Kg (PPB) MR |                | 9/12/2023                       | 9/14/2023                       | 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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COMPANY: MILLER ENERGY COMPANY II, LLC

GTA PROJECT NO: 091323-4

PROJECT NO: 2023704006

GTA SAMPLE NO: 3

LOCATION: BUCLENBERGER WELLHEAD

DATE SAMPLED: 9/12/2023

TIME SAMPLED: 11:35 AM

DATE RECEIVED: 9/13/2023

TIME RECEIVED: 9:25 AM

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: GS-3

SAMPLED BY: E. VINCKE/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><br><u>Extracted</u> | <u>Date</u><br><u>Completed</u> | <u>Prep Method</u> |
|------------------------|----------------------|------------|--------------|----------------|---------------------------------|---------------------------------|--------------------|
| Benzene                | ND                   | 50         | ug/Kg (PPB)  | MR             | 9/12/2023                       | 9/14/2023                       | 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.

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

COMPANY: MILLER ENERGY COMPANY II, LLC

GTA PROJECT NO: 091323-4

PROJECT NO: 2023704006

GTA SAMPLE NO: 4

LOCATION: BUCLENBERGER WELLHEAD

DATE SAMPLED: 9/12/2023

TIME SAMPLED: 11:45 AM

DATE RECEIVED: 9/13/2023

TIME RECEIVED: 9:25 AM

MI

SAMPLE MATRIX: SOIL

SAMPLE ID: GS-4

SAMPLED BY: E. VINCKE/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><br><u>Extracted</u> | <u>Date</u><br><u>Completed</u> | <u>Prep Method</u> |
|------------------------|----------------------|------------|--------------|----------------|---------------------------------|---------------------------------|--------------------|
| Benzene                | ND                   | 50         | ug/Kg (PPB)  | MR             | 9/12/2023                       | 9/14/2023                       | 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.

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION



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COMPANY: MILLER ENERGY COMPANY II, LLC

GTA PROJECT NO: 091323-4

PROJECT NO: 2023704006

GTA SAMPLE NO: 1

LOCATION: BUCLENBERGER WELLHEAD

DATE SAMPLED: 9/12/2023

TIME SAMPLED: 11:23 AM

DATE RECEIVED: 9/13/2023

TIME RECEIVED: 9:25 AM

MI

SAMPLED BY: E. VINCKE/GCES

### SAMPLE ANALYSIS

#### No: Analysis

SAMPLE ID: GS-1

CHLORIDE EPA 300.0

#### Concentration

2,800

#### LOD

110

#### Units

mg/Kg (PPM)

#### Analyst

KC/AS

#### Date Completed

9/13/2023

#### Sample Matrix

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

PROJECT NO: 2023704006

LOCATION: BUCLENBERGER WELLHEAD

GTA PROJECT NO: 091323-4

GTA SAMPLE NO: 2

DATE SAMPLED: 9/12/2023

TIME SAMPLED: 11:31 AM

DATE RECEIVED: 9/13/2023

TIME RECEIVED: 9:25 AM

SAMPLED BY: MI  
E. VINCKE/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 Matrix</u> |
|------------|--------------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|
|            | SAMPLE ID: GS-2    |                      |            |              |                |                       |                      |
|            | CHLORIDE EPA 300.0 | 1,800                | 100        | mg/Kg (PPM)  | KC/AS          | 9/13/2023             | 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

PROJECT NO: 2023704006

LOCATION: BUCLENBERGER WELLHEAD

GTA PROJECT NO: 091323-4

GTA SAMPLE NO: 3

DATE SAMPLED: 9/12/2023

TIME SAMPLED: 11:35 AM

DATE RECEIVED: 9/13/2023

TIME RECEIVED: 9:25 AM

SAMPLED BY: MI  
E. VINCKE/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 Matrix</u> |
|------------|--------------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|
|            | SAMPLE ID: GS-3    |                      |            |              |                |                       |                      |
|            | CHLORIDE EPA 300.0 | 990                  | 110        | mg/Kg (PPM)  | KC/AS          | 9/13/2023             | 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: 091323-4

PROJECT NO: 2023704006

GTA SAMPLE NO: 4

LOCATION: BUCLENBERGER WELLHEAD

DATE SAMPLED: 9/12/2023

TIME SAMPLED: 11:45 AM

DATE RECEIVED: 9/13/2023

TIME RECEIVED: 9:25 AM

MI

SAMPLED BY: E. VINCKE/GCES

**SAMPLE ANALYSIS**

**No: Analysis**

SAMPLE ID: GS-4

CHLORIDE EPA 300.0

**Concentration**

650

**LOD**

110

**Units**

mg/Kg (PPM)

**Analyst**

KC/AS

**Date Completed**

9/13/2023

**Sample Matrix**

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

GTA PROJECT NO: 091323-4

NAME:

SAMPLED BY: E. VINCKE/GCES

PROJECT NO: 2023704006

DATE SAMPLED: 9/12/2023

LOCATION: BUCLENBERGER WELLHEAD

SAMPLE SOIL

DATE RECEIVED: 9/13/2023

TIME RECEIVED: 9:25 AM

MI

**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: GS-1 | % MOISTURE EPA 3550C | 15                   | 0.10       | % OF SAMPLE  | AS             | 9/13/2023             |
| SAMPLE ID: GS-2 | % MOISTURE EPA 3550C | 13                   | 0.10       | % OF SAMPLE  | AS             | 9/13/2023             |
| SAMPLE ID: GS-3 | % MOISTURE EPA 3550C | 14                   | 0.10       | % OF SAMPLE  | AS             | 9/13/2023             |
| SAMPLE ID: GS-4 | % MOISTURE EPA 3550C | 12                   | 0.10       | % OF SAMPLE  | AS             | 9/13/2023             |

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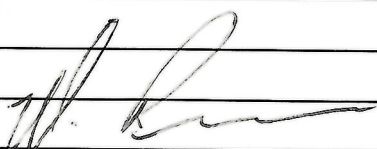
www.gtanalytical.com

**CHAIN OF CUSTODY**

|                                     |                                                   |                                  |
|-------------------------------------|---------------------------------------------------|----------------------------------|
| PROJECT NUMBER<br><b>2023704006</b> | SITE NAME/ADDRESS<br><b>Buckenberger Wellhead</b> | COMPANY/NAME<br><b>MEC</b>       |
| SAMPLED BY<br><b>E. Vincke</b>      | COMPANY<br><b>GCES</b>                            | GTA PROJECT #<br><b>091323-4</b> |

**SAMPLE INFORMATION**

| # | SAMPLE ID | DATE SAMPLED | TIME  | MATRIX | ANALYSIS           |
|---|-----------|--------------|-------|--------|--------------------|
|   | GS-1      | 9-12-23      | 11:23 | Soil   | BTEX + 4, Chloride |
|   | GS-2      | '            | 11:31 | ↓      | ↓ ↓ ↓              |
|   | GS-3      | ↓            | 11:35 | ↓      | ↓ ↓ ↓              |
|   | GS-4      | ↓            | 11:45 | ↓      | ↓ ↓ ↓              |
|   |           |              |       |        |                    |
|   |           |              |       |        |                    |
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|                                                                                                                                                                                      |                                     |                                                                                                     |                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------|
| BILL TO:<br><b>MEC</b>                                                                                                                                                               | TempRec: <input type="checkbox"/>   | On Ice? <input checked="" type="checkbox"/> <input type="checkbox"/><br><b>0.6°C</b>                | REPORT TO:<br><b>E. Vincke / L. Dyke</b> |
| RELEASED BY<br><b>E. Vincke</b>                                                                                                                                                      | DATE/TIME<br><b>9-13-23 / 09:20</b> | RECEIVED BY<br> | DATE/TIME<br><b>9-13-23 9:25A</b>        |
| REQUESTED TAT <input type="checkbox"/> STANDARD <input type="checkbox"/> 1 BUSINESS DAY <input checked="" type="checkbox"/> 2 BUSINESS DAYS <input type="checkbox"/> 3 BUSINESS DAYS |                                     |                                                                                                     |                                          |