

Maximum Development Group, LLC d/b/a

MDG ENVIRONMENTAL, LLC

Corporate Office

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November 28, 2023

Mr. Ralph J. Condo
Business Administrator
Township of Mullica
P.O. Box 317
Elwood, NJ 08217

RE: Air Monitoring – Seventh Round
Township of Mullica / Mullica Police Department
4528 White Horse Pike
Elwood, New Jersey
MDG Project No. 23-227-2

Dear Mr. Condo:

Thank you for selecting MDG Environmental, LLC (MDG) for your indoor environmental needs. This correspondence is being forwarded to report the results of the seventh round of air monitoring conducted on November 27, 2023 at the above referenced property.

The purpose of the on-going air monitoring is to provide on-going data in order to ensure that the engineering controls that were recommended by MDG in our letter dated August 18, 2023 are effective including the implementation of sufficient air filtration and isolation of the lower level of the building in order to allow short term duration/temporary access to the Police Department by authorized personnel of the Mullica Township Police Department so they can process evidence and/or retrieve files.

On November 27, 2023, MDG's Senior Industrial Hygienist, Chris Macri arrived on-site to collect fungal spore trap air samples within the lower level of the Police Department.

MDG collected fungal spore trap air samples from the lower level rear stairwell, from the squad room, from the Detective's office, from the hallway, from the Matron's/records office and from the lower level Police Department waiting area as well as from outdoors to be used as a background/comparison sample.

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Fungal spore trap air samples are collected by using an Air-O-Cell™ cassette attached to a high volume vacuum pump. A volume of air is drawn through the cassette and the contents of the air are deposited upon a specially treated glass slide, which is then analyzed by a microbiologist who identifies fungal genera (type) and quantity. Fungal spore trap air samples measure both viable and non-viable fungal spores as well as fungal parts and fragments.

Fungal spore trap air samples are collected from the outdoors to be used as a comparison to the indoor samples. There are currently no standards of reference ranges for acceptable levels of airborne fungal concentrations when interpreting fungal air sample results. It is generally accepted that indoor airborne fungal concentrations should be approximately the same or less than those found outdoors and display similar genus distribution. Elevated indoor airborne fungal concentrations as compared to outdoor concentrations are often an indicator of a fungal amplification source due to a moisture condition.

Air sampling for mold is often referred to as a “snapshot in time”. The results of the mold sampling are not indicative of any past fungal contamination or any fungal contamination that may exist in the future, but only the conditions that existed at the time of sampling. The results of the samples are a reflection of the types of mold and quantity of those molds present in the air at the time and location of the sample collection. MDG cannot guarantee that mold does not exist in areas where no samples were collected during the inspection, nor can MDG guarantee that mold will not amplify (grow) at some point in the future in the areas that were sampled. The environmental conditions in a building, particularly the presence of moisture, dictate whether mold will grow. Isolating and correcting unwelcome sources of moisture is the only way to prevent unwanted mold growth.

It should be noted that when outdoor air samples are collected during fall/winter months, the airborne fungal concentrations observed in the outdoor air sample tend to be much lower and indigenous fungal species may not be detected as cooler drier temperatures prevent sporulation. These factors should be taken into consideration when interpreting the fungal spore trap air sample results.

Fungal spore trap air samples were collected in the following areas:

- AOC-01 – Outdoors
- AOC-02 – Rear Stairwell
- AOC-03 – Squad Room
- AOC-04 – Detective’s Office
- AOC-05 – Hallway
- AOC-06 – Matron’s/Records Office
- AOC-07 – Waiting Area PD Lower Level

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The results of the fungal spore trap air samples can be found in Table 1.0 below. Please note that a detailed analytical report from EMSL Analytical Inc. is attached to this report.

| Sample Number | Sample Location | Total Spore Concentration | | Background Concentration | | Background Corrected |
|---------------|-----------------------------|---------------------------|--------------------|--------------------------|--------------------|----------------------|
| | | Raw Count | CTS/m ³ | Raw Count | CTS/m ³ | |
| AOC-01 | Outdoors | 87 | 3,870 | 87 | 3,870 | N/A |
| AOC-02 | Rear Stairwell | 38 | 1,580 | 87 | 3,870 | Less than Background |
| AOC-03 | Squad Room | 16 | 660 | 87 | 3,870 | Less than Background |
| AOC-04 | Detective's Office | 3 | 120 | 87 | 3,870 | Less than Background |
| AOC-05 | Hallway | 9 | 380 | 87 | 3,870 | Less than Background |
| AOC-06 | Matron's/Records Office | 6 | 210 | 87 | 3,870 | Less than Background |
| AOC-07 | Waiting Area PD Lower Level | 19 | 690 | 87 | 3,870 | Less than Background |

The total airborne fungal concentrations of the air sample collected in the rear stairwell (AOC-02) were less than the background sample that was collected outdoors. However, it should be noted that slightly elevated airborne fungal concentrations of Rust, as compared to the background sample, were observed, but were within an acceptable range of the background sample and therefore should be considered representative of a normal airborne fungal load in an occupied indoor air quality environment.

The total airborne fungal concentrations of the air sample collected in squad room (AOC-03) were less than the background sample that was collected outdoors.

The total airborne fungal concentrations of the air sample collected in the Detective's office (AOC-04) were less than the background samples that was collected outdoors. However, it should be noted that slightly elevated airborne fungal concentrations of Epicoccum, as compared to the background sample, were observed, but were within an acceptable range of the background sample and therefore should be considered representative of a normal airborne fungal load in an occupied indoor air quality environment.

The total airborne fungal concentrations of the air sample collected in the hallway (AOC-05) were less than the background samples that was collected outdoors.

The total airborne fungal concentrations of the air sample collected in the Matron's/records office (AOC-06) were less than the background samples that was collected outdoors.

The total airborne fungal concentrations of the air sample collected in the lower level Police Department waiting area (AOC-07) were less than the background sample that was collected outdoors. However, it should be noted that slightly elevated airborne fungal concentrations of individual types of mold spores, as compared to the background sample, were observed including Ascospores, Epicoccum and Unidentifiable Spores, but were within an acceptable range of the background sample and therefore should be considered representative of a normal airborne fungal load in an occupied indoor air quality environment.

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Based on the results of the fungal spore trap air sampling, it can be stated with a reasonable degree of scientific certainty that the airborne fungal concentrations in the squad room, hallway and matron's/records office within the lower level of the building were less than the background sample that was collected outdoors. The slightly elevated airborne fungal concentrations of individual type of mold spores observed in the rear stairwell, Detective's office and waiting area in the lower level Police Department were within an acceptable range of the background sample and considered representative of a normal airborne fungal load in an occupied indoor air quality environment.

Based on the results of the seventh round of air monitoring conducted on November 27, 2023, the lower level of the building should continue to remain isolated, and air filtration and dehumidification within the lower level of the building should continue to remain in operation until proper repairs, waterproofing and remediation have been performed. MDG's eighth round of air monitoring is scheduled for December 11, 2023.

Once again, thank you for selecting MDG Environmental, LLC and we hope that you will consider us in the future for your environmental and safety and health needs.

Sincerely,

MDG Environmental, LLC



Christopher Macri, IH, CMC, CIE
Senior Industrial Hygienist