

Maximum Development Group, LLC d/b/a

MDG ENVIRONMENTAL, LLC

Corporate Office

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September 7, 2023

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

RE: Interim Air Sampling – First 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 first round of interim air sampling (monitoring) conducted on August 29, 2023 at the above referenced property.

On August 29, 2023, MDG's Senior Industrial Hygienist, Chris Macri collected fungal spore trap air samples from the following areas: Courtroom (temporary Police Department) located on the first floor of the building, lower level waiting area located outside of the Police Department, hallway in the center of the Police Department, squad room, Detective's Office, Matron's/Records Office and back stairwell that leads from the squad room to the first floor of the building. A fungal spore trap air sample was collected from outdoors to be used as a background or comparison sample.

The purpose of the air sampling was to provide data in order to ensure that the engineering controls that were recommended by MDG in our latter dated August 18, 2023 are in effect and providing sufficient air filtration and isolation 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.

It should be noted that on August 29, 2023, the engineering controls that were recommended by MDG for limited temporary access to the lower level of the building had not yet been fully implemented. The Matron's/Records office was not sealed off or under negative pressure. There were no dehumidifiers or HEPA filtered air filtration devices in operation within the lower level Police Department.

MDG was informed by a Township employee that the necessary equipment to establish the recommended engineering controls had been delivered on or around August 29, 2023 and that arrangements had been made for ServPro to set-up the equipment and isolation barriers, etc.

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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.

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

- AOC-01 – Outdoors
- AOC-02 – Court Room 1st Floor
- AOC-03 – Waiting Area Basement
- AOC-04 – Hallway
- AOC-05 – Squad Room
- AOC-06 – Detective’s Office
- AOC-07 – Marton’s/Records Office
- AOC-08 – Back Stairwell

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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	26	1,170	26	1,170	N/A
AOC-02	Court Room 1 st Floor	5	180	26	1,170	Less than Background
AOC-03	Waiting Area Basement	19	780	26	1,170	Less than Background
AOC-04	Hallway	7	260	26	1,170	Less than Background
AOC-05	Squad Room	12	500	26	1,170	Less than Background
AOC-06	Detective's Office	9	410	26	1,170	Less than Background
AOC-07	Matron's/Records Office	1,724	75,170	26	1,170	Greater than Background
AOC-08	Back Stairwell	24	980	26	1,170	Less than Background

The total airborne fungal concentrations of the air sample collected in the first floor court room (AOC-02) were less than the background samples 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 samples, were observed including *Epicoccum* and *Pithomyces*, but were found to be 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 basement waiting area (AOC-03) were less than the background sample that was collected outdoors. However, it should be noted that elevated airborne fungal concentrations of individual types of mold spores, as compared to the background sample, were observed including *Chaetomium*, *Curvularia*, *Epicoccum*, *Myxomycetes*, *Pithomyces*, *Stachybotrys/Memnoniella* and *Arthrinium*.

The total airborne fungal concentrations of the air sample collected in the hallway (AOC-04) were less than the background samples that was collected outdoors. However, it should be noted that elevated airborne fungal concentrations of individual types of mold spores, as compared to the background samples, were observed including *Curvularia* and *Stachybotrys/Memnoniella*.

The total airborne fungal concentrations of the air sample collected in the squad room (AOC-05) were less than the background samples that was collected outdoors. However, it should be noted that elevated airborne fungal concentrations of individual types of mold spores, as compared to the background samples, were observed including *Chaetomium*, *Epicoccum*, *Pithomyces* and *Stachybotrys/Memnoniella*.

The total airborne fungal concentrations of the air sample collected in the Detective's office (AOC-06) were less than the background samples that was collected outdoors. However, it should be noted that elevated airborne fungal concentrations of individual types of mold spores, as compared to the background sample, were observed including *Epicoccum* and *Stachybotrys/Memnoniella*.

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The total airborne fungal concentrations of the air sample collected in the Matron's/Records Office (AOC-07) revealed elevated airborne fungal concentrations as compared to the background sample that was collected outdoors. The dominant fungi observed in the air sample collected in the Matron's/Records office were *Aspergillus/Penicillium* like spores, *Chaetomium*, *Epicoccum*, *Pithomyces*, *Stachybotrys/Memnoniella*, Unidentifiable Spores and *Bispora*.

The total airborne fungal concentrations of the air sample collected in the back stairwell (AOC-08) were less than the background samples that was collected outdoors. However, it should be noted that elevated airborne fungal concentrations of individual types of mold spores, as compared to the background sample, were observed including *Basidiospores*, *Epicoccum*, *Ganoderma*, *Pithomyces*, *Rust* and *Stachybotrys/Memnoniella*.

Based on the results of the fungal spore trap air sampling, it can be stated with a reasonable degree of scientific certainty that there is airborne fungal contamination in the lower level Police Department including the Matron's/Records office, waiting area, hallway, squad room, Detective's office and back stairwell.

As noted previously, the engineering controls that were recommended by MDG for temporary access to the lower level of the building had not yet been fully implemented and is likely the reason/contributing factor for the airborne fungal contamination.

Based on the results of the interim air sampling conducted on August 29, 2023, MDG recommends, as noted in our August 18, 2023 letter for temporary access, that isolation, air filtration and dehumidification should be implemented in the lower level of the building and followed until full fungal and bacterial remediation activities can be conducted once repairs and waterproofing has been done. MDG's second round of interim air sampling is scheduled for September 12, 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