



INDOOR AIR QUALITY ASSESSMENT

FOR THE PROPERTY KNOWN AS:

**East Stroudsburg High School North
Timberwolf Drive
Dingmans Ferry, PA 18328**

For the Client:

**EAST STROUDSBURG AREA SCHOOL DISTRICT
15 S. Courtland Street
East Stroudsburg, PA 18301**

Prepared by:

**LABELLA ASSOCIATES
1000 DUNHAM DRIVE, SUITE B
DUNMORE, PA 18512
(570) 342-3101**

**PROJECT # 2200223
February July 9, 2020**



SUMMARY

This report presents the results of area inspections, and airborne mold spore sampling. The area inspections, and airborne mold spore sampling were performed on July 9, 2020.

The purpose of the above activities was to determine if undesirable airborne mold spores, mold growth, or conditions that might support mold growth were present in the following targeted areas:

East Stroudsburg High School North: Room 206, Room 211, Room 214, Room 221, Room 229, Room 307, Room 130, Library, Room 118, Room 116, Room 100, and the Cafeteria.

East Stroudsburg High School North is a 222,000 SF building situated on a four-hundred acre lot and accommodates seventy-seven classrooms. East Stroudsburg High School North is also serviced by oil heat.

As part of this inspection and air sampling testing project, a series of field measurements, observations, and tests were performed at the time of the assessment. The conclusions and recommendations made in this report are the results of the collation, analysis, and evaluation of the samples collected and observations recorded during the course of this inspection and sampling effort.

The exterior temperature at the time of the sampling procedure on 7-9-2020 was reported as 76 °F and the interior temperature was reported between 72 °F to 77 °F. The sky was clear with light wind during the time of the assessment.

II. INSPECTION:

Area Inspections: Inspections were performed in each designated room to determine if any suspected mold growth or conditions, such as wet or water-stained building materials that might support mold growths, were present. Refer to: Area Inspection/Environmental Monitoring.

Note: Building components were visually assessed and documented by its apparent condition. Moisture readings were not taken at individual building components. Refer to appendix B for photo descriptions.

Table 1: Area Inspection/Environmental Monitoring			
Location	Temperature (F)	Relative Humidity (RH)	Special Comments:
Rm. 109	66	21%	-Water stained ceiling tiles (Moderate Damage)
Rm 108	68	16%	-Water stained ceiling tiles (light) -Water staining on window sill
Rm 117 Chemistry	68	16%	-Water stained ceiling tiles (light) -Minor suspect growth on fume hood label
Rm. 120	70	16%	-Minor water spots on window sill
Rm 127	72	16%	-Water stained ceiling tiles (minor) -Minor dust on air supply vents
Gymnasium	69	21%	-Minor dust buildup on ductwork



Rm 300	72	21%	-Water stained ceiling tiles (minor) -Reported leaks at missing ceiling tile location -Reported interior window condensation issues -Significant dust on air supply vents
Rm 308	72	16%	-Water stains identified on one ceiling tile -Water stained window sills
Rm 226	72	16%	-Water stained ceiling tile in one location -Dusty air supply vents were identified -Water staining on window sills -One potted plant
Rm 231	72	16%	-Drywall water damage identified around window -Water staining on window sill (minor) -Significant dust on air supply vents -Water staining on ceiling tile (corner)
Rm. 216 Biology Lab	72	16%	-Leaking sink (Tile floor) -Water stained ceiling tiles (minor) -Water stained window sills (minor) -Minor dust on air supply vents
Rm 209	72	16%	-Two (2) water stained ceiling tiles -Six (6) to seven (7) potted plants -Minor dust on air supply vents
Rm. 202	72	16%	-Drywall water damage on wall -Minor water staining on window sill
Rm. 200	73	16%	-Two (2) to three (3) potted plants -Water stained ceiling tiles (moderate damage) -Water stained window sills (minor damage)

Table 1: Area Inspection/Environmental Monitoring July 9, 2020			
Location	Temperature (F)	Relative Humidity (RH)	Special Comments:
Rm. 206	77	65%	-Nothing to note
Rm 211	77	66%	-Nothing to note
Rm 214	75	65%	-Nothing to note
Rm. 221	75	65%	-Nothing to note
Rm 229	75	65%	-Nothing to note
Rm. 302	75	65%	-Nothing to note
Rm. 307	75	65%	-Nothing to note
Rm. 130	75	66%	-Nothing to note
Library	74	66%	-Nothing to note
Rm. 118	73	64%	-Nothing to note
Rm. 106	75	57%	-Nothing to note
Rm. 100	74	55%	-Nothing to note
Cafeteria	72	55%	-Nothing to note



SAMPLING:

Collection: Air-O-Cell sampling cassette and pump calibrated at 15.0 liters per minute and were sampled for a total duration of five (5) minutes per sample, reaching a total volume of seventy-five (75) liters.

Evaluation Factors for Airborne Fungi: A combination of the following factors is used as a guideline by this investigator to aid in determining if airborne fungi levels might be higher than desirable or might be pointing to one or more growth reservoirs inside the building:

- For total fungal spore counts (cumulative counts of all groups in a sample), total counts for each type of fungus in a sample, and total counts of other fungal structures in a sample, indoor levels should be less than outdoor levels except when outdoor levels are atypical (e.g. low during the non-growing season or during outdoor snow cover).
- There should be no significant presence of the following indicator organism groups for potential mold and moisture sources inside the work area: *Aureobasidium*, *Aspergillus*, *Stachybotrus*, *Trichoderma*, *Chaetomium*, *Fusarium*, *Penicillium* or *Ulocladium*.

In relation to the above, the presence, in small numbers, of a few genera inside the building that are not present in outside air, should not be considered abnormal or significant.

Generally, total spore counts for indoor airborne samples should be less than 400-600 Fungal Structures per cubic meter (s/m³). Higher total inside counts should be acceptable if the inside groups are identical to outside groups and their concentrations are similar to or less than outdoor concentrations.

Preparation and transport – Each sample was given a discreet identification #. Following sample collection, the intake and outlet for the Air-O-Cell cassettes were immediately sealed. All sealed samples were placed in a Fed Ex pack for overnight transport to the analytical laboratory under chain of custody procedures. Analytical – All samples were analyzed by EMLab P&K, Marlton, N.J. Samples were analyzed for total spore counts. Refer to table 2 of the report for analytical results at East Stroudsburg High School North and appendix A for laboratory results and associated chain of custody.

Table 2 Summary of Analytical Results: Fungal Spores via Spore Trap East Stroudsburg Area School District (EASD) – East Stroudsburg High School North January 21, 2020 and July 9, 2020 * indicates July 9, 2020 sampling			
Sample Description	Total Spore Count (Count/m ³)	Speciation (Count/m ³)	Comment
Sample ID: 11 Location: 109 Art Studio	13 count/m ³	<ul style="list-style-type: none"> • Pithmyces (13 c/m³) 	Note 1
Sample ID: 01 Location: 206	53 count/m ³	<ul style="list-style-type: none"> • Basidiospores (53 c/m³) 	Note 2
Sample ID: 12 Location: Room 108	<13 count/m ³	<ul style="list-style-type: none"> • No spores detected 	Note 2



Sample ID: 02 Location: Room 211	13 count/m ³	<ul style="list-style-type: none"> Other Brown Spores Detected 	Note 2
Sample ID: 13 Location: Room 117 Chemistry	270 count/m ³	<ul style="list-style-type: none"> Aspergillus/Penicillium (270 c/m³) 	Note 1
Sample ID: 03 Location: Room 214	110 count/m ³	<ul style="list-style-type: none"> Ascospores (110 c/m³) 	Note 2
Sample ID: 14 Location: Room 120	67 count/m ³	<ul style="list-style-type: none"> Aspergillus/Penicillium (53 c/m³) Myxomycetes (13 c/m³) 	Note 1
Sample ID: 04 Location: Room 221	27 count/m ³	<ul style="list-style-type: none"> Ascospores (110 c/m³) Epicoccum (13 c/m³) 	Note 2
Sample ID: 15 Location: Room 127	27 count/m ³	<ul style="list-style-type: none"> Myxomycetes (27 c/m³) 	Note 1
Sample ID: 05 Location: Room 127	53 count/m ³	<ul style="list-style-type: none"> Basidiospores (53 c/m³) 	Note 2
Sample ID: 16 Location: Gymnasium	<13 count/m ³	<ul style="list-style-type: none"> No spores detected 	Note 2
Sample ID: 06 Location: Gymnasium	53 count/m ³	<ul style="list-style-type: none"> Basidiospores (53 c/m³) 	Note 2
Sample ID: 17 Location: Room 300	110 count/m ³	<ul style="list-style-type: none"> Basidiospores (53 c/m³) Aspergillus/Penicillium (53 c/m³) 	Note 1
Sample ID: 07 Location: Room 307	110 count/m ³	<ul style="list-style-type: none"> Ascospores (110 c/m³) Basidiospores (53 c/m³) 	Note 1
Sample ID: 18 Location: Room 308	67 count/m ³	<ul style="list-style-type: none"> Cladosporium (53 c/m³) Aspergillus/Penicillium (17 c/m³) 	Note 1
Sample ID: 08 Location: Room 308	80 count/m ³	<ul style="list-style-type: none"> Basidiospores (53 c/m³) Aspergillus/Penicillium (13 c/m³) 	Note 2
Sample ID: 19 Location: Room 226	<13 count/m ³	<ul style="list-style-type: none"> No spores detected 	Note 2
Sample ID: 09 Location: Library	53 count/m ³	<ul style="list-style-type: none"> Aspergillus/Penicillium (13 c/m³) 	Note 2
Sample ID: 20 Location: Room 231	<13 count/m ³	<ul style="list-style-type: none"> No spores detected 	Note 2
Sample ID: 10 Location: Room 118	210 count/m ³	<ul style="list-style-type: none"> Cladosporium (210 c/m³) 	Note 2
Sample ID: 21 Location: Biology Room 216	67 count/m ³	<ul style="list-style-type: none"> Cladosporium (53 c/m³) Epicoccum (13 c/m³) 	Note 1
Sample ID: 11 Location: Room 106	80 count/m ³	<ul style="list-style-type: none"> Cladosporium (53 c/m³) Pithomyces (13 c/m³) 	Note 2
Sample ID: 22 Location: Room 209	53 count/m ³	<ul style="list-style-type: none"> Aspergillus/Penicillium (53 c/m³) 	Note 1



Sample ID: 12 Location: Room 100	53 count/m ³	<ul style="list-style-type: none">Aspergillus/Penicillium (53 c/m³)	Note 2
Sample ID: 23 Location: Room 202	<13 count/m ³	<ul style="list-style-type: none">No spores detected	Note 2
Sample ID: 13 Location: Cafeteria	53 count/m ³	<ul style="list-style-type: none">Basidiospores (53 c/m³)	Note 2
Sample ID: 23 Location: Room 202	<13 count/m ³	<ul style="list-style-type: none">No spores detected	Note 2
Sample ID: 14 Location: Exterior (HSN and Lehman I)	4,700 count/m ³	<ul style="list-style-type: none">Ascospores (800 c/m³)Basidiospores (1,800 c/m³)Cladosporium (2,000 c/m³)	Exterior Background

Table 2 Notes:

Count/m³: Spore count per cubic meter of air

Note 1: Elevated spore counts and/or dissimilar spore type diversity when compared to exterior background samples.

Note 2: Unremarkable when compared to outside air levels monitored simultaneously.

General Information: Fungi make up approximately 25% of the earth's biomass and are extremely ubiquitous (McNeel and Kreutzer, 1996). For purposes of this study, their presence inside a building is normal, but their populations can be enhanced, amplified, or diversified due to excess moisture in porous materials (or even non-porous surfaces with sufficient moisture and nutrient-containing dust particles).

Some of these organisms can be responsible for allergic reactions or infections, especially in relation to sensitized individuals and those with suppressed immunological systems. Some are also known to produce mycotoxins harmful to humans.

The types of sampling conducted on July 9, 2020 in the targeted areas are not meant to determine, in and of themselves, health conditions in the building, i.e. whether it is safe or unsafe. There are several reasons for this including the fact that there are no standards promulgated relating airborne and surface fungal concentrations to health conditions. Another reason, in relation to this study, is that it is difficult (at best), risky, and not good science to read too much into the results of one round of air monitoring and one round of surface sampling. However, we can look for trends and together with other inspection and investigative techniques, we can make suggestions regarding further actions or evaluate environmental conditions in the building.

DISCUSSION

Area Inspections:

- Temperature was found to be below ASHRAE recommended guidelines within Rm. 109.
- Relative humidity levels were found to be below ASHRAE guidelines throughout.
- No odors were identified during the inspection.



- Dust Buildup was found on supply vent louvers, indicative of improper cleaning practices.
- Potted plants were found in various locations and can contribute to microbial growth. The soil often supply's nutrients from decaying leaves and other organic matter.

Spore Trap Air Sampling:

- Some Spore counts were found to be dissimilar and/or slightly elevated when compared to exterior background samples in the following locations:

RECOMMENDATIONS:

- General housekeeping protocols should be regularly utilized such as routine cleaning and drying of all flat surfaces and air supply vents.
- Water damaged/stained building materials should be repaired or replaced immediately to reduce the likelihood of fungal proliferation.
- Further investigation of underlying water/moisture issues associated with pre-existing water staining in the building. This includes replacing or drying affected building components and mitigating the issue.
- Drywall needs to also be repaired to eliminate water infiltration. A qualified health and safety professional or trained building staff can complete the task for small isolated areas.
- It's recommended to follow ASHRAE guidelines: indoor temperatures between 68.5 F to 80.5 F and indoor relative humidity be maintained between 30% and 60% to reduce mold growth and accomplish occupant comfort.
- As a best practice, routinely assess potted plants to ensure standing water is not occurring and remove decaying organic matter.

Findings and recommendations for the assessment are based on what was observed during the inspection date. In the event you have any questions or require additional information, please contact me directly at (570) 342-3101.

Respectfully submitted,

LaBella Associates

Ryan McGrady
Environmental Scientist

Report for:

Mr. Brian Poplarchick
LaBella Associates, D.P.C
1000 Dunham Drive, Suite B
Dunmore, PA 18512

Regarding: Project: H.S. North; 2200223
EML ID: 2439833

Approved by:

Dates of Analysis:
Spore trap analysis: 07-15-2020



Technical Manager
Ariunaa Jalsrai

Service SOPs: Spore trap analysis (EM-MY-S-1038)
AIHA-LAP, LLC accredited service, Lab ID #103005

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received. Sample air volume is supplied by the client.

Eurofins EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Eurofins EMLab P&K's LabServe® reporting system includes automated fail-safes to ensure that all AIHA-LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

Client: LaBella Associates, D.P.C
 C/O: Mr. Brian Poplarchick
 Re: H.S. North; 2200223

Date of Receipt: 07-13-2020
 Date of Report: 07-15-2020

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	01: Rm 206			02: Rm 211		
Comments (see below)	None			None		
Lab ID-Version‡:	11631733-1			11631734-1		
Analysis Date:	07/15/2020			07/15/2020		
	raw ct.	% read	spores/m3	raw ct.	% read	spores/m3
Alternaria						
Ascospores						
Basidiospores	1	25	53			
Chaetomium						
Cladosporium						
Curvularia						
Epicoccum						
Myrothecium						
Nigrospora						
Other brown				1	100	13
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+			1+		
Hyphal fragments/m3	< 13			13		
Pollen/m3	< 13			< 13		
Skin cells (1-4+)	1+			1+		
Sample volume (liters)	75			75		
§ TOTAL SPORES/m3			53			13

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m³ divided by the raw count, expressed in spores/m³. The limit of detection is the analytical sensitivity (in spores/m³) multiplied by the sample volume (in liters) divided by 1000 liters.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m³ has been rounded to two significant figures to reflect analytical precision.

Client: LaBella Associates, D.P.C
C/O: Mr. Brian Poplarchick
Re: H.S. North; 2200223Date of Receipt: 07-13-2020
Date of Report: 07-15-2020**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	03: Rm 214			04: Rm 221		
Comments (see below)	None			None		
Lab ID-Version‡:	11631735-1			11631736-1		
Analysis Date:	07/15/2020			07/15/2020		
	raw ct.	% read	spores/m3	raw ct.	% read	spores/m3
Alternaria				1	100	13
Ascospores	2	25	110			
Basidiospores						
Chaetomium						
Cladosporium						
Curvularia						
Epicoccum				1	100	13
Myrothecium						
Nigrospora						
Other brown						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	1+			1+		
Hyphal fragments/m3	< 13			< 13		
Pollen/m3	< 13			< 13		
Skin cells (1-4+)	1+			1+		
Sample volume (liters)	75			75		
§ TOTAL SPORES/m3			110			27

Comments:

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C/O: Mr. Brian Poplarchick
Re: H.S. North; 2200223Date of Receipt: 07-13-2020
Date of Report: 07-15-2020**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	05: Rm 229			07: Rm 307		
Comments (see below)	None			None		
Lab ID-Version‡:	11631737-1			11631739-1		
Analysis Date:	07/15/2020			07/15/2020		
	raw ct.	% read	spores/m ³	raw ct.	% read	spores/m ³
Alternaria						
Ascospores				1	25	53
Basidiospores	1	25	53	1	25	53
Chaetomium						
Cladosporium						
Curvularia						
Epicoccum						
Myrothecium						
Nigrospora						
Other brown						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	1+			1+		
Hyphal fragments/m ³	< 13			< 13		
Pollen/m ³	< 13			< 13		
Skin cells (1-4+)	1+			1+		
Sample volume (liters)	75			75		
§ TOTAL SPORES/m³			53			110

Comments:

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Re: H.S. North; 2200223Date of Receipt: 07-13-2020
Date of Report: 07-15-2020**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	08: Rm 130			09: Library		
Comments (see below)	None			None		
Lab ID-Version‡:	11631740-1			11631741-1		
Analysis Date:	07/15/2020			07/15/2020		
	raw ct.	% read	spores/m ³	raw ct.	% read	spores/m ³
Alternaria						
Ascospores						
Basidiospores	1	25	53			
Chaetomium						
Cladosporium						
Curvularia						
Epicoccum						
Myrothecium						
Nigrospora						
Other brown						
Other colorless						
Penicillium/Aspergillus types†				1	25	53
Pithomyces	1	100	13			
Rusts						
Smuts, Periconia, Myxomycetes	1	100	13			
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	1+			1+		
Hyphal fragments/m ³	27			< 13		
Pollen/m ³	< 13			< 13		
Skin cells (1-4+)	1+			1+		
Sample volume (liters)	75			75		
§ TOTAL SPORES/m³			80			53

Comments:

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C/O: Mr. Brian Poplarchick
Re: H.S. North; 2200223Date of Receipt: 07-13-2020
Date of Report: 07-15-2020**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	10: Rm 118			11: Rm 106		
Comments (see below)	None			None		
Lab ID-Version‡:	11631742-1			11631743-1		
Analysis Date:	07/15/2020			07/15/2020		
	raw ct.	% read	spores/m3	raw ct.	% read	spores/m3
Alternaria						
Ascospores						
Basidiospores						
Chaetomium						
Cladosporium	4	25	210	1	25	53
Curvularia						
Epicoccum						
Myrothecium						
Nigrospora						
Other brown						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces				1	100	13
Rusts						
Smuts, Periconia, Myxomycetes				1	100	13
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	1+			1+		
Hyphal fragments/m3	< 13			13		
Pollen/m3	< 13			< 13		
Skin cells (1-4+)	1+			1+		
Sample volume (liters)	75			75		
§ TOTAL SPORES/m3			210			80

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

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The analytical sensitivity is the spores/m³ divided by the raw count, expressed in spores/m³. The limit of detection is the analytical sensitivity (in spores/m³) multiplied by the sample volume (in liters) divided by 1000 liters.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m³ has been rounded to two significant figures to reflect analytical precision.

Client: LaBella Associates, D.P.C
C/O: Mr. Brian Poplarchick
Re: H.S. North; 2200223Date of Receipt: 07-13-2020
Date of Report: 07-15-2020**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	12: Rm 100			13: Cafeteria		
Comments (see below)	None			None		
Lab ID-Version‡:	11631744-1			11631745-1		
Analysis Date:	07/15/2020			07/15/2020		
	raw ct.	% read	spores/m3	raw ct.	% read	spores/m3
Alternaria						
Ascospores						
Basidiospores				1	25	53
Chaetomium						
Cladosporium						
Curvularia						
Epicoccum						
Myrothecium						
Nigrospora						
Other brown						
Other colorless						
Penicillium/Aspergillus types†	1	25	53			
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	1+			1+		
Hyphal fragments/m3	< 13			< 13		
Pollen/m3	< 13			< 13		
Skin cells (1-4+)	1+			1+		
Sample volume (liters)	75			75		
§ TOTAL SPORES/m3			53			53

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m³ divided by the raw count, expressed in spores/m³. The limit of detection is the analytical sensitivity (in spores/m³) multiplied by the sample volume (in liters) divided by 1000 liters.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

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§ Total Spores/m³ has been rounded to two significant figures to reflect analytical precision.

Client: LaBella Associates, D.P.C
C/O: Mr. Brian Poplarchick
Re: H.S. North; 2200223

Date of Receipt: 07-13-2020
Date of Report: 07-15-2020

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	COMBO X1: HD / INT		
Comments (see below)	None		
Lab ID-Version‡:	11631746-1		
Analysis Date:	07/15/2020		
	raw ct.	% read	spores/m3
Alternaria	6	100	80
Ascospores	15	25	800
Basidiospores	34	25	1,800
Chaetomium			
Cladosporium	38	25	2,000
Curvularia	2	100	27
Epicoccum			
Myrothecium			
Nigrospora			
Other brown			
Other colorless			
Penicillium/Aspergillus types†			
Pithomyces			
Rusts			
Smuts, Periconia, Myxomycetes			
Stachybotrys			
Stemphylium			
Torula			
Ulocladium			
Zygomycetes			
Background debris (1-4+)††	1+		
Hyphal fragments/m3	27		
Pollen/m3	53		
Skin cells (1-4+)	< 1+		
Sample volume (liters)	75		
§ TOTAL SPORES/m3			4,700

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

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The analytical sensitivity is the spores/m³ divided by the raw count, expressed in spores/m³. The limit of detection is the analytical sensitivity (in spores/m³) multiplied by the sample volume (in liters) divided by 1000 liters.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

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§ Total Spores/m³ has been rounded to two significant figures to reflect analytical precision.

Client: LaBella Associates, D.P.C
 C/O: Mr. Brian Poplarchick
 Re: H.S. North; 2200223

Date of Receipt: 07-13-2020
 Date of Report: 07-15-2020

MoldSCORE™: Spore Trap Report

Outdoor Sample: COMBO X1 HD / INT

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					6	80
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					38	2,000
Curvularia					2	27
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					ND	< 13
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores					15	800
Basidiospores					34	1,800
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes					ND	< 13
Total						4,747

Location: 01 Rm 206

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					ND	< 13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					ND	< 13
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					ND	< 13
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores					ND	< 13
Basidiospores					1	53
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes					ND	< 13
Total						53

MoldSCORE‡			
100	200	300	Score
			100
			100
			100
			100
			100
			100
			100
			100
			100
			100
			104
			100
			100
Final MoldSCORE			104

Client: LaBella Associates, D.P.C
 C/O: Mr. Brian Poplarchick
 Re: H.S. North; 2200223

Date of Receipt: 07-13-2020
 Date of Report: 07-15-2020

MoldSCORE™: Spore Trap Report

Location: 02 Rm 211

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Other brown					1	13				105
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
Total						13				Final MoldSCORE 105

Location: 03 Rm 214

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					2	110				136
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
Total						107				Final MoldSCORE 100

Client: LaBella Associates, D.P.C
 C/O: Mr. Brian Poplarchick
 Re: H.S. North; 2200223

Date of Receipt: 07-13-2020
 Date of Report: 07-15-2020

MoldSCORE™: Spore Trap Report

Location: 04 Rm 221

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria	█				1	13	█			105
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium					ND	< 13	█			100
Curvularia					ND	< 13	█			100
Epicoccum	█				1	13	█			105
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores					ND	< 13	█			100
Basidiospores					ND	< 13	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes					ND	< 13	█			100
Total						27				Final MoldSCORE 110

Location: 05 Rm 229

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium					ND	< 13	█			100
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores					ND	< 13	█			100
Basidiospores	█				1	53	█			104
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes					ND	< 13	█			100
Total						53				Final MoldSCORE 104

Client: LaBella Associates, D.P.C
 C/O: Mr. Brian Poplarchick
 Re: H.S. North; 2200223

Date of Receipt: 07-13-2020
 Date of Report: 07-15-2020

MoldSCORE™: Spore Trap Report

Location: 07 Rm 307

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					1	53				114
Basidiospores					1	53				101
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
Total						107				Final MoldSCORE 101

Location: 08 Rm 130

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Pithomyces					1	13				105
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					1	53				102
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					1	13				103
Total						80				Final MoldSCORE 108

Client: LaBella Associates, D.P.C
 C/O: Mr. Brian Poplarchick
 Re: H.S. North; 2200223

Date of Receipt: 07-13-2020
 Date of Report: 07-15-2020

MoldSCORE™: Spore Trap Report

Location: 09 Library

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡				
	<100	1K	10K	>100K			100	200	300	Score	
Generally able to grow indoors*											
Alternaria					ND	< 13				100	
Bipolaris/Drechslera group					ND	< 13				100	
Chaetomium					ND	< 13				100	
Cladosporium					ND	< 13				100	
Curvularia					ND	< 13				100	
Nigrospora					ND	< 13				100	
Penicillium/Aspergillus types†	█				1	53				108	
Stachybotrys					ND	< 13				100	
Torula					ND	< 13				100	
Seldom found growing indoors**											
Ascospores					ND	< 13				100	
Basidiospores					ND	< 13				100	
Rusts					ND	< 13				100	
Smuts, Periconia, Myxomycetes					ND	< 13				100	
Total						53					
										Final MoldSCORE	108

Location: 10 Rm 118

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡				
	<100	1K	10K	>100K			100	200	300	Score	
Generally able to grow indoors*											
Alternaria					ND	< 13				100	
Bipolaris/Drechslera group					ND	< 13				100	
Chaetomium					ND	< 13				100	
Cladosporium	█				4	210				108	
Curvularia					ND	< 13				100	
Nigrospora					ND	< 13				100	
Penicillium/Aspergillus types†					ND	< 13				100	
Stachybotrys					ND	< 13				100	
Torula					ND	< 13				100	
Seldom found growing indoors**											
Ascospores					ND	< 13				100	
Basidiospores					ND	< 13				100	
Rusts					ND	< 13				100	
Smuts, Periconia, Myxomycetes					ND	< 13				100	
Total						213					
										Final MoldSCORE	108

Client: LaBella Associates, D.P.C
 C/O: Mr. Brian Poplarchick
 Re: H.S. North; 2200223

Date of Receipt: 07-13-2020
 Date of Report: 07-15-2020

MoldSCORE™: Spore Trap Report

Location: 11 Rm 106

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium	█				1	53				101
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Pithomyces	█				1	13				105
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes	█				1	13				103
Total						80				Final MoldSCORE 108

Location: 12 Rm 100

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†	█				1	53				108
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
Total						53				Final MoldSCORE 108

Report for:

Mr. Brian Poplarchick
LaBella Associates, D.P.C
1000 Dunham Drive, Suite B
Dunmore, PA 18512

Regarding: Project: H.S. North; 2200223
EML ID: 2439833

Approved by:

Dates of Analysis:
Spore trap analysis: 07-15-2020



Technical Manager
Ariunaa Jalsrai

Service SOPs: Spore trap analysis (EM-MY-S-1038)
AIHA-LAP, LLC accredited service, Lab ID #103005

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received. Sample air volume is supplied by the client.

Eurofins EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Eurofins EMLab P&K's LabServe® reporting system includes automated fail-safes to ensure that all AIHA-LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

Client: LaBella Associates, D.P.C
C/O: Mr. Brian Poplarchick
Re: H.S. North; 2200223Date of Receipt: 07-13-2020
Date of Report: 07-15-2020**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Lab ID-Version‡ Location	Air vol. (L)	Background Debris	Counts of Fungal Structures	Fungal Structures/m ³	Presumptive Fungal ID (raw counts*)	Percentage
11631733-1 07/15/2020 01 Rm 206	75	2+	4	53 § Total: 53	Basidiospores (1)	100
Comments:						
11631734-1 07/15/2020 02 Rm 211	75	1+	1 1	13 § Total: 13 13	Other brown (1) Hyphal fragments (1)	100 N/A
Comments:						
11631735-1 07/15/2020 03 Rm 214	75	1+	8	110 § Total: 110	Ascospores (2)	100
Comments:						
11631736-1 07/15/2020 04 Rm 221	75	1+	1 1	13 13 § Total: 27	Alternaria (1) Epicoccum (1)	50 50
Comments:						
11631737-1 07/15/2020 05 Rm 229	75	1+	4	53 § Total: 53	Basidiospores (1)	100
Comments:						
11631739-1 07/15/2020 07 Rm 307	75	1+	4 4	53 53 § Total: 110	Ascospores (1) Basidiospores (1)	50 50
Comments:						

Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m³ divided by the raw count, expressed in spores/m³. The limit of detection is the analytical sensitivity (in spores/m³) multiplied by the sample volume (in liters) divided by 1000 liters.

*All AIHA accredited laboratories are required to provide raw counts of fungal structures in spore trap reports. These counts are defined by AIHA as "Actual count without extrapolation or calculation". The number in parentheses next to the fungal type represents the exact number (or raw count) of fungal structures observed.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total has been rounded to two significant figures to reflect analytical precision.

Client: LaBella Associates, D.P.C
 C/O: Mr. Brian Poplarchick
 Re: H.S. North; 2200223

Date of Receipt: 07-13-2020
 Date of Report: 07-15-2020

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Lab ID-Version‡ Location	Air vol. (L)	Background Debris	Counts of Fungal Structures	Fungal Structures/m3	Presumptive Fungal ID (raw counts*)	Percentage
11631740-1 07/15/2020 08 Rm 130	75	1+	4 1 1 2	53 13 13 § Total: 80 27	Basidiospores (1) Pithomyces (1) Smuts, Periconia, Myxomycetes (1) Hyphal fragments (2)	67 17 17 N/A
Comments:						
11631741-1 07/15/2020 09 Library	75	1+	4	53 § Total: 53	Penicillium/Aspergillus types (1)	100
Comments:						
11631742-1 07/15/2020 10 Rm 118	75	1+	16	210 § Total: 210	Cladosporium (4)	100
Comments:						
11631743-1 07/15/2020 11 Rm 106	75	1+	4 1 1 1	53 13 13 § Total: 80 13	Cladosporium (1) Pithomyces (1) Smuts, Periconia, Myxomycetes (1) Hyphal fragments (1)	67 17 17 N/A
Comments:						
11631744-1 07/15/2020 12 Rm 100	75	1+	4	53 § Total: 53	Penicillium/Aspergillus types (1)	100
Comments:						
11631745-1 07/15/2020 13 Cafeteria	75	1+	4	53 § Total: 53	Basidiospores (1)	100
Comments:						

Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m³ divided by the raw count, expressed in spores/m³. The limit of detection is the analytical sensitivity (in spores/m³) multiplied by the sample volume (in liters) divided by 1000 liters.

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Client: LaBella Associates, D.P.C
 C/O: Mr. Brian Poplarchick
 Re: H.S. North; 2200223

Date of Receipt: 07-13-2020
 Date of Report: 07-15-2020

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Lab ID-Version‡ Location	Air vol. (L)	Background Debris	Counts of Fungal Structures	Fungal Structures/m3	Presumptive Fungal ID (raw counts*)	Percentage
11631746-1 07/15/2020 COMBO X1 HD / INT	75	1+	6 60 136 152 2 2 4	80 800 1,800 2,000 27 § Total: 4,700 27 53	Alternaria (6) Ascospores (15) Basidiospores (34) Cladosporium (38) Curvularia (2) Hyphal fragments (2) Pollen (4)	2 17 38 43 1 N/A N/A
Comments:						

Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m³ divided by the raw count, expressed in spores/m³. The limit of detection is the analytical sensitivity (in spores/m³) multiplied by the sample volume (in liters) divided by 1000 liters.

*All AIHA accredited laboratories are required to provide raw counts of fungal structures in spore trap reports. These counts are defined by AIHA as "Actual count without extrapolation or calculation". The number in parentheses next to the fungal type represents the exact number (or raw count) of fungal structures observed.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total has been rounded to two significant figures to reflect analytical precision.

Client: LaBella Associates, D.P.C
 C/O: Mr. Brian Poplarchick
 Re: H.S. North; 2200223

Date of Receipt: 07-13-2020
 Date of Report: 07-15-2020

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: COMBO X1, HD / INT

Fungi Identified	Outdoor data	Typical Outdoor Data for: July in Pennsylvania† (n‡=2029)						Typical Outdoor Data for: The entire year in Pennsylvania† (n‡=24810)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	80	13	20	53	120	190	75	8	13	40	93	160	45
Bipolaris/Drechslera group	-	7	7	13	27	47	15	7	7	13	33	53	10
Chaetomium	-	7	7	13	27	53	4	7	7	13	17	40	3
Cladosporium	2,000	270	480	1,200	3,000	5,100	95	53	110	590	2,000	3,600	85
Curvularia	27	7	7	13	40	53	27	7	7	13	47	80	17
Epicoccum	-	10	13	27	67	120	56	7	13	27	67	110	40
Nigrospora	-	7	7	13	27	53	13	7	7	13	40	67	17
Other brown	-	7	7	13	33	53	18	7	7	13	33	53	14
Penicillium/Aspergillus types	-	53	110	310	850	1,300	52	53	53	190	590	1,000	50
Pithomyces	-	7	13	27	80	160	46	7	13	27	80	160	27
Stachybotrys	-	7	7	27	200	370	1	7	7	13	46	180	< 1
Torula	-	7	11	13	40	54	11	7	9	13	40	67	7
Seldom found growing indoors**													
Ascospores	800	240	450	1,200	2,900	4,700	98	53	110	590	1,900	3,400	80
Basidiospores	1,800	930	1,800	5,400	15,000	24,000	99	110	240	1,900	8,100	15,000	96
Rusts	-	7	7	13	40	60	21	7	13	20	53	110	21
Smuts, Periconia, Myxomycetes	-	13	13	47	120	210	75	11	13	40	110	200	63
§ TOTAL SPORES/m3	4,700												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by Eurofins EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, Eurofins EMLab P&K may not have received and tested a representative number of samples for every region or time period. Eurofins EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.





APPENDIX A
LABORATORY REPORT AND CHAIN OF CUSTODY:

