





Report for:

Mr. Adam Lesko Green Environmental Consulting, Inc 180 Pleasant Street 2nd Floor, Suite 213 Easthampton, MA 01027

Regarding:

: Project: 03260; Northampton H.S - Black Box Theatre EML ID: 2774183

Approved by:

Technical Manager Ariunaa Jalsrai

Dates of Analysis: Spore trap analysis: 11-03-2021

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 and tested. Information supplied by the client which can affect the validity of results: sample air volume.

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.

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Client: Green Environmental Consulting, Inc C/O: Mr. Adam Lesko Re: 03260; Northampton H.S - Black Box Theatre Date of Sampling: 10-29-2021 Date of Receipt: 11-01-2021 Date of Report: 11-03-2021

Lab ID-Version‡ Location	Air vol. (L)	Background Debris	Counts of Fungal Structures	Fungal Structures/m3	Presumptive Fungal ID (raw counts*)	Percentage
13276416-1 11/03/2021	75	1+	20	270	Basidiospores (5)	65
3336 6330			1	13	Chaetomium (1)	3
Theatre (T)			10	130	Penicillium/Aspergillus types (10)	32
				§ Total: 410		
Comments: 10 of the raw	count Penici	llium/Asperg	<i>illus</i> type sp	ores were present a	s a single clump.	
13276417-1 11/03/2021	75	1+	1	13	Alternaria (1)	1
3336 6318			16	210	Basidiospores (4)	14
Hall @ Locker Rm's			1	13	Epicoccum (1)	1
(C)			92	1,200	Penicillium/Aspergillus types (23)	80
			1	13	Rusts (1)	1
			4	53	Smuts, Periconia, Myxomycetes (4)	3
				§ Total: 1,500		
Comments:				1	1	
13276418-1 11/03/2021	75	1+	12	160	Ascospores (3)	5
3336 6323			144	1,900	Basidiospores (36)	62
Exterior (C)			36	480	Cladosporium (9)	15
			36	480	Penicillium/Aspergillus types (9)	15
			1	13	Pestalotiopsis (1)	< 1
			1	13	Pithomyces (1)	< 1
			1	13	Polythrincium (1)	< 1
			3	40	Smuts, Periconia, Myxomycetes (3)	1
				§ Total: 3,100		
			2	27	Pollen (2)	N/A

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

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.

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Date of Sampling: 10-29-2021 Date of Receipt: 11-01-2021 Date of Report: 11-03-2021

MoldRANGETM, Local Climate; Extended Outdoor Comparison

Outdoor Location: 3336 6323, Exterior (C)

Fungi Identified	Outdoor		Туріса	l Outd	loor Da	ta for	:	Typical Outdoor Data for:							
	data		Oc EMI ab	tober in	Northeas	st†			The e	ntire yea	r in Nort	heast†			
		B Annu	al Temp,	B Elev.	, A Rain,	A Tem	o. Range	B Annu	al Temp	, B Elev.	, A Rain,	A Temp	. Range		
				(n‡=	:107)					(n‡=	1068)				
Project zip code 01060	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %		
Generally able to grow indoors*															
Alternaria	-	13	14	31	67	83	50	10	13	27	67	93	34		
Bipolaris/Drechslera group	-	-	-	-	-	-	7	7	11	13	13	27	4		
Chaetomium	-	-	-	-	-	-	3	7	7	13	13	13	2		
Cladosporium	480	110	210	750	1,800	3,400	91	53	80	370	1,300	2,600	78		
Curvularia	-	11	13	13	53	79	32	7	13	22	53	120	14		
Epicoccum	-	7	13	27	53	140	47	7	13	21	53	78	31		
Nigrospora	-	7	8	13	26	34	19	7	7	13	27	34	8		
Penicillium/Aspergillus types	480	36	53	160	670	1,700	50	38	53	110	370	830	43		
Pestalotiopsis	13	-	-	-	-	-	7	-	-	-	-	-	2		
Pithomyces	13	8	13	27	110	220	35	7	13	27	80	270	22		
Polythrincium	13	-	-	-	-	-	6	10	13	13	27	53	6		
Stachybotrys	-	-	-	-	-	-	< 1	-	-	-	-	-	< 1		
Torula	-	-	-	-	-	-	4	7	11	17	75	92	4		
Seldom found growing indoors**															
Ascospores	160	55	110	370	990	1,800	92	53	110	430	1,400	2,800	75		
Basidiospores	1,900	690	1,400	4,000	9,100	14,000	> 99	53	160	1,500	6,700	12,000	96		
Rusts	-	13	13	27	67	110	38	7	13	27	67	110	17		
Smuts, Periconia, Myxomycetes	40	13	27	53	200	610	81	8	13	38	110	210	56		
§ TOTAL SPORES/m3	3,100														

¹EMLab Regional Climate codes are a climate classification scheme for regional geographic areas containing multiple states. The MoldRANGETM Local Climate report uses the sampling location zip code to identify the EMLab Regional Climate code in that area. Using information available from the NOAA weather database, the EMLab Regional Climate code sharpens the precision of the MoldRANGETM reporting system, providing more reliable estimates of the range and average concentrations of the different airborne fungal spore types for each region. Additional information on the EMLab Regional Climate code system can be found on the last page of this report.

[†]The Typical Outdoor Data represents the typical outdoor spore levels across the region's group of states for the time period and EMLab Regional Climate code 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 not enough data is available to make a statistically meaningful assessment, it is indicated with a dash.

‡ n is the sample size used to calculate the MoldRANGETM Local Climate data summarized in the table.

* 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.

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

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Understanding EMLab Regional Climate Codes

Outdoor airborne spore concentrations are strongly influenced by climate and weather patterns, often resulting in pronounced seasonal and diurnal cycles (Burge 1995). The seasonal climatic changes directly affect the growth cycle of plants, thereby influencing fungal growth, spore maturation, and release cycles. By evaluating outdoor spore concentrations across similar climatic zones rather than for the state as a whole, it is possible to provide a more representative estimate of typical outdoor spore levels and frequency of occurrence for different airborne fungal spore types in a given area.

The EMLab Regional Climate code system is a novel classification system that uses data from the NOAA - National Oceanic and Atmospheric Administration database to define unique climate zones. The following climate variables, for each regional zip code, are obtained from NOAA and assigned a letter code of A (above the regional average for that variable) or B (below the regional average for that variable):

- 1. Annual High Temperature
- 2. Elevation
- 3. Rainfall/Precipitation
- 4. Monthly Temperature Range

The result is a 4-character code assigned to each statewide zip code, referred to as the Regional Climate Code. Below are some examples of decoded Regional Climate Codes:

AAAA = Above avg. Annual High Temperature, Above avg. Elevation, Above avg. Rainfall/Precipitation, Above avg. Monthly Temperature Range **AABB** = Above avg. Annual High Temperature, Above avg. Elevation, Below avg. Rainfall/Precipitation, Below avg. Monthly Temperature Range **BBAA** = Below avg. Annual High Temperature, Below avg. Elevation, Above avg. Rainfall/Precipitation, Above avg. Monthly Temperature Range

The actual outdoor air sample data from matching regional climate codes in each group of states are then compiled in a manner relating typical spore concentrations and frequency of occurrence.

The data presented in this report is from the Northeast Region which includes the states of: CT, DE, MA, MD, ME, NH, NJ, NY, PA, RI, and VT

The NOAA regional climate variables were selected by mapping data points from a subset of approximately 145,000 weather and geographic database entries to over 80,000 outdoor spore trap samples with known zip codes and assessing them using orthogonal array experimental design techniques. The results were then compared to the typical ranges of spore types found when grouping zip codes using the Koppen-Geiger climatic classification system; a commonly used climatic system that provides an objective numerical definition in terms of climatic elements such as temperature, rainfall, and other seasonal characteristics . The EMLab Regional Climate codes showed improved granularity and refinement of the zip code groupings, implying a better representation of the expected range of spore types to be found within an individual zip code.

The values on this report were calculated by obtaining the four variables listed above from the over 585 million data points of weather and geographic information available in the NOAA database, and determining the frequencies and percentile values of spore types by utilizing over 180,000 Eurofins EMLab P&K outdoor spore trap samples with known zip codes.

This report groups regional zip codes in relation to these EMLab Regional Climate codes and summarizes MoldRANGE[™] data by month and year within each EMLab Regional Climate code.

References:

Burge, Harriet, A. Bioaerosols: Boca Raton: Lewis Publishers, pp. 163-171, 1995.

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.

Eurofins EPK Built Environment Testing, LLC

EMLab ID: 2774183, Page 2 of 2 U.S. Patent No. 10,387,458

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MoldSCORETM: Spore Trap Report

Outdoor Sample: 3336 6323 Exterior (C)

Fungi Identified	0	Outdoor sample spores/m3							Raw	Spores/				
	<]	00			1K				10K	2	>10	0K	count	m3
Generally able to grow indoors*										 				
Alternaria													ND	< 13
Bipolaris/Drechslera group													ND	< 13
Chaetomium													ND	< 13
Cladosporium													9	480
Curvularia													ND	< 13
Nigrospora													ND	< 13
Penicillium/Aspergillus types [†]													9	480
Pestalotiopsis													1	13
Pithomyces													1	13
Polythrincium													1	13
Stachybotrys													ND	< 13
Torula													ND	< 13
Seldom found growing indoors**														
Ascospores													3	160
Basidiospores													36	1,900
Rusts													ND	< 13
Smuts, Periconia, Myxomycetes												\prod	3	40
Total														3,120

Location: 3336 6330 Theatre (T)

Fungi Identified	Indo	or sam	ple spore	es/m3	Raw	Spores/		MoldSCORE [‡]			
	<100	1K	10K	>100K	count	m3	100	200	300	Score	
Generally able to grow indoors*											
Alternaria					ND	< 13				100	
Bipolaris/Drechslera group					ND	< 13				100	
Chaetomium					1	13				121	
Cladosporium					ND	< 13				100	
Curvularia					ND	< 13				100	
Nigrospora					ND	< 13				100	
Penicillium/Aspergillus types†					10	130				111	
Stachybotrys					ND	< 13				100	
Torula					ND	< 13				100	
Seldom found growing indoors**											
Ascospores					ND	< 13				100	
Basidiospores					5	270				102	
Rusts					ND	< 13				100	
Smuts, Periconia, Myxomycetes					ND	< 13				100	
Total						413	Fin	al MoldS	CORE	121	

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MoldSCORETM: Spore Trap Report

Location: 3336 6318 Hall @ Locker Rm's (C)

Fungi Identified	Indoor	r sam	ple spore	es/m3	Raw	Spores/	MoldSCORE [‡]					
	<100	1K	10K	>100K	count	m3	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 [†]					23	1,200				233		
Stachybotrys					ND	< 13				100		
Torula					ND	< 13				100		
Seldom found growing indoors**												
Ascospores					ND	< 13				100		
Basidiospores					4	210				100		
Rusts					1	13				105		
Smuts, Periconia, Myxomycetes					4	53				107		
Total						1,533	Fin	al MoldSC	ORE	233		

* 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.

[†]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.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY



Comments: A) 10 of the raw count Penicillium/Aspergillus type spores were present as a single clump.

Note: Graphical output may understate the importance of certain "marker" genera. Eurofins EPK Built Environment Testing, LLC