

#### ENVIRONMENTAL CONSULTANTS & ABATEMENT CONTRACTORS

December 16, 2022

PA HIC # 195

Schuylkill Valley School District 929 Lake Shore Drive Leesport, PA 19533

Attn: Casey Blankenbiller

Re: Spore Trap Air Sampling Services High School- 929 Lake Shore Drive EHC Project No.: 210141-006

Dear Mr. Blankenbiller:

Please review the attached laboratory analysis report regarding the spore trap air sampling performed at the above-referenced property on December 14, 2022. Air samples were collected from the following locations:

Sample 01 – Room C-7 Sample 02 – Room D-27 Sample 03 – Room D-60 Sample 04 – Room D-28 Sample 05 – Room D-31 Sample 06 – Outside

At the current time, there are no established "safe" levels of mold spores regarding indoor mold spore levels. However, the general consensus among experts in the industry is that interior spore levels should be generally equal to the levels found outside of a home or building.

As indicated on the enclosed report, at the time of sampling, <u>the spore counts are currently</u> within acceptable ranges (indoor compared to outdoor).

Please note that a limited, non-invasive visual inspection was performed. Although air sample results indicate low spore counts, this does not mean that a home or building is free of mold growth. When moisture is not present mold will become dormant and stop producing spores. EHC makes every attempt to detect mold growth using a combination of a thorough visual inspection, air sampling, and years of field experience.

At the time of inspection, no visible mold growth was observed.

In order to prevent microbial growth, we recommend that Relative Humidity (R.H.) be maintained below 50% in all areas of the home. Additionally, all areas should be inspected frequently for pipe leaks or for signs of water intrusion and cleaned and dried promptly upon occurrence.

Please contact my office with questions or concerns, or if additional information is needed.

December 16, 2022 Page 2

Sincerely,

De,

Mark Andrechik Risk Assessor #056293

Encl's.: Laboratory Analysis Report Invoice 210141-006



### #22050223

Analysis Report prepared for

## EHC Associates, Inc.

2502 Horseshoe Rd Lancaster, PA 17601

Phone: (717) 656-3008

210141-006 SVHS

Collected: December 14, 2022 Received: December 16, 2022 Reported: December 16, 2022 We would like to thank you for trusting Hayes Microbial for your analytical needs! We received 6 samples by FedEx in good condition for this project on December 16th, 2022.

The results in this analysis pertain only to this job, collected on the stated date, and should not be used in the interpretation of any other job. Information supplied by the customer can affect the validity of results. These results apply only to the samples as received. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC.

All information provided to Hayes Microbial is confidential information relating to our customers and their clients. We will not disclose, copy, or distribute any information verbally or written, except to those designated by the customer(s). We take confidentiality very seriously. No changes to the distribution list will be made without the express consent of the customer.

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial. In no event, shall Hayes Microbial or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of the use of these test results.

Stephen N. Hayes

Steve Hayes, BSMT(ASCP) Laboratory Director Hayes Microbial Consulting, LLC.



EPA Laboratory ID: VA01419







DPH License: #PH-0198

3005 East Boundary Terrace, Suite F. Midlothian, VA. 23112

(804) 562-3435

Mark Andrechik

## EHC Associates, Inc. 2502 Horseshoe Rd

Lancaster, PA 17601 (717) 656-3008

#### 210141-006 SVHS

#22050223

SOP - #HMC101

Sample Number	1	3484	6688	2	3526	9248	3	3526	9244	4	3526	9245
Sample Name		Room C - 7		Room D - 27		Room D - 60			Room D - 28			
Sample Volume		75 liter		75 liter		75 liter			75 liter			
Reporting Limit		13 spores/m <sup>3</sup>		13 spores/m <sup>3</sup>		13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>			
Background		2		2			2			2		
Fragments		ND		ND			ND			ND		
	Pollen	Dander	Fiber	Pollen Dander Fiber		Pollen	Pollen Dander Fiber		Pollen Dander F		Fiber	
	ND	200/m <sup>3</sup>	13/m <sup>3</sup>	ND	3840/m <sup>3</sup>	27/m <sup>3</sup>	ND	480/m <sup>3</sup>	13/m <sup>3</sup>	ND	240/m <sup>3</sup>	13/m <sup>3</sup>
Organism	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total
Alternaria												
Ascospores	1	13	100.0%	2	27	66.7%	2	27	100.0%	1	13	50.0%
Aspergillus Penicillium												
Basidiospores				1	13	33.3%				1	13	50.0%
Bipolaris Drechslera												
Chaetomium												
Cladosporium												
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	1	13	100%	3	40	100%	2	27	100%	2	26	100%
Water Damage Indicato	r	Commo	n Allergen		Slightly Higher	than Baseline	Signi	ficantly Higher	than Baseline		Ratio Abnormal	ity
		Collected: Dec 1	4, 2022	Rece	eived: Dec 16, 20	022	Reported:	Dec 16, 2022				
		Project Analyst: Ramesh Poluri,	PhD P. R	Camer	Shy	Date: 12 - 16 - 202	Review 22 David N	ed By: 1cDonald, PHR 🗸	David M	.Donald	Date:	5 - 2022
		3005 East Bo	undary Terra	ce, Suite F. Mic	llothian, VA. 2	3112	(804) 562-34	35 cor	ntact@hayesm	nicrobial.com		Page: 2 of 5

Mark Andrechik

# EHC Associates, Inc. 2502 Horseshoe Rd

Lancaster, PA 17601 (717) 656-3008

### #22050223

SOP - #HMC101

Sample Number	5	3526	0262	6	3526	0250				
Sample Name	5	0020	9202	0	Outoido	9230				
Sample Name	ľ	10011 0 - 31			Outside					
Sample Volume		75 liter			75 liter					
Reporting Limit		13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>	-				
Background		2		2						
Fragments		ND			ND					
	Pollen	Dander	Fiber	Pollen	Dander	Fiber				
	ND	267/m <sup>3</sup>	13/m <sup>3</sup>	ND	27/m <sup>3</sup>	ND				
Organism	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total				
Alternaria						-				
Ascospores	1	13	50.0%	7	93	70.0%				
Aspergillus Penicillium						-				
Basidiospores				3	40	30.0%				
Bipolaris Drechslera						-				
Chaetomium						-				
Cladosporium						-				
Curvularia						-				
Epicoccum	1	13	50.0%			-				
Fusarium						-				
Memnoniella						-				
Myxomycetes						-				
Pithomyces						-				
Stachybotrys						-				
Stemphylium						-				
Torula						-				
Ulocladium						-				
						-		·		
						-		·		
Total	2	26	100%	10	133	100%				
Water Damage Indicator	r	Commo	on Allergen		Slightly Higher	than Baseline	Significantly Higher	than Baseline	Ratio Ab	normality
		Collected: Dec	14, 2022	Rec	eived: Dec 16, 2	022	Reported: Dec 16, 2022			
		Project Analyst Ramesh Poluri,	PhD P.F	Zame	Shy	Date: 12 - 16 - 2022	Reviewed By: David McDonald, PHR	Pavid McDo	nald	Date: <b>12 - 16 - 2022</b>
		3005 East Bo	oundary Terra	ice, Suite F. Mi	dlothian, VA. 2	23112 (8	304) 562-3435 cor	ntact@hayesmicrol	bial.com	Page: <b>3</b> of

Mark	Andr	echik	
		10 A.	

EHC Associates, Inc. 2502 Horseshoe Rd Lancaster, PA 17601

(717) 656-3008

Reporting Limit	The Reporting Limit is the lowest number of spores that can be detected based on the total volume of the sample collected and the percentage of the slide that is counted. At Hayes Microbial, 100% of the slide is read so the LOD is based solely on the total volume. Raw spore counts that exceed 500 spores will be estimated.
Blanks	Results have not been corrected for field or laboratory blanks.
Background	The Background is the amount of debris that is present in the sample. This debris consists of skin cells, dirt, dust, pollen, drywall dust and other organic and non-organic matter. As the background density increases, the likelihood of spores, especially small spores such as those of Aspergillus and Penicillium may be obscured. The background is rated on a scale of 1 to 5 and each level is determined as follows:
	<ul> <li>NBD: No background detected due to possible pump or cassette malfunction. Recollect sample. (Field Blanks will display NBD)</li> <li>1: &lt;5% of field occluded. No spores will be uncountable.</li> <li>2: 5-25% of field occluded.</li> <li>3: 25-75% of field occluded.</li> <li>4: 75-90% of field occluded.</li> <li>5: &gt;90% of field occluded. Suggested recollection of sample.</li> </ul>
Fragments	Fragments are small pieces of fungal mycelium or spores. They are not identifiable as to type and when present in very large numbers, may indicate the presence of mold amplification.
Control Comparisons	There are no national standards for the numbers of fungal spores that may be present in the indoor environment. As a general rule and guideline that is widely accepted in the indoor air quality field, the numbers and types of spores that are present in the indoor environment should not exceed those that are present outdoors at any given time. There will always be some mold spores present in "normal" indoor environments. The purpose of sampling and counting spores is to help determine whether an abnormal condition exists within the indoor environment and if it does, to help pinpoint the area of contamination. Spore counts should not be used as the sole determining factor of mold contamination. There are many factors that can cause anomalies in the comparison of indoor and outdoor samples due to the dynamic nature of both of those environments.
Water Damage Indicator	Blue: These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem.
Common Allergen	Green: Although all molds are potential allergens, these are the most common allergens that may be found indoors.
Slightly Higher than Baseline	Orange: The spore count is slightly higher than the baseline count and may or may not indicate a source of contamination.
Significantly Higher than Baseline	<b>Welet:</b> The types of energy found indexes about the baseline count and probably indicates a source of contamination.
Ratio Abnormality	the ratio of a particular spore type may indicate the presence of abnormal levels of mold, even if the total number of spores of that type is lower in the indoor environment than it was outdoors.
Color Coding	Fungi that are present in indoor samples at levels lower than 200 per cubic meter are not color coded on the report, unless they are one of the water damage indicators.



Mark Andrechik EHC Associates, Inc.		<b>210141-006 #22050223</b> SVHS
Lancaster, PA 17601 (717) 656-3008		Organism Descriptions
Ascospores	Habitat:	A large group consisting of more than 3000 species of fungi. Common plant pathogens and outdoor numbers become very high following rain. Most of the genera are indistinguishable by spore trap analysis and are combined on the report.
	Effects:	Health affects are poorly studied, but many are likely to be allergenic.
Basidiospores	Habitat:	A common group of Fungi that includes the mushrooms and bracket fungi. They are saprophytes and plant pathogens. In wet conditions they can cause structural damage to buildings.
	Effects:	Common allergens and are also associated with hypersensitivity pneumonitis.
Epicoccum	Habitat:	It is found in soil and plant litter and is a plant pathogen. It can grow indoors on a variety of substrates, including paper and textiles and is commonly found on wet drywall.
	Effects:	It is a common allergen. No cases of infection have been reported in humans.



	IAL CONSU	Address: 2502 Horseshoe Road Lancaster, PA 17601			8176 1280 5950	220502	
Job Number: 2/	0141-006	Job Name:					
Collector: And	rechilk	SVHS	<	Mobile: (717) 65	6-3008 Email: labresu	lts@ehcassociate	
Date Collected:	2/14/22			Note:		1	
Analysis T	/pe	Analysis Description		Turnaround	Accepted M	edia Types	
Spore Trap	S	Identification & Enumeration of Fungal Spores		24 Hour	Air Cassettes, Impact Slides	;	
	S+	Spore Trap Analysis with Dander, Fiber, and Pollen cou	ints	24 Hour	Air Cassettes, Impact Slides	;	
Direct ID	D	ID & Semi-Quantative Enumeration of spores and myce	elium	24 Hour	Bio-Tape, Tape, Swab, Bulk,	Agar Plate	
	D+	Direct Analysis with Fully Quantitative spore count		24 Hour	Bio-Tape, Tape, Swab, Bulk,	Agar Plate	
Culture	C1	Identification & Enumeration of Mold only	2	7 Day	Air Plate, Agar Plate, Swab,	Bulk	
	C2	Identification & Enumeration of Bacteria only		4 Day	Air Plate, Agar Plate, Swab,	e, Agar Plate, Swab, Bulk	
	C3	Identification & Enumeration of Mold and Bacteria		7 Day	Air Plate, Agar Plate, Swab, Bulk		
	C5	Coliform Screen for Sewage Bacteria	form Screen for Sewage Bacteria			Agar Plate, Swab, Bulk	
Particle	TPA	Total Particulate Analysis, ID & Count (Does Not Inclue	de Mold)	24 Hour	Air Cassettes, Impact Slides	, Bio-Tape	
# Nu	mber	Sample	Analys	is Volume	1	lotes	
1 3784	6688	Reom C-7	St	756	-		
2 3526	9278	Rn D-27		1			
3 3526	9244	Rn D-60				-	
4 3526	9245	Rm D-28					
5 3526	9262	Rn D-31					
6 3526	9250	Dutside		V			
7							
8							
9							
10							
11							
12					/	<u>ل</u>	
13							
14					keen total	- m	
15							