Herbert Layman, BS, SM, CIEC Microbial consultant

Customer: Firewater Response Address: 1130 Lebanon Rd. Pittsburgh, PA 15122 Contact: Stefan Schaming Customer Project: Penn Hills Elementary Survey Date: August 17, 2022 Report Date: August 22, 2022

#### **Project Summary**

Herbert Layman, BS, SM, CIEC; Microbial Consultant was contacted by Stefan Schaming of Firewater Response concerning a mold issue in the Penn Hills Elementary School, Pittsburgh, PA. As related to the investigator by Chris Martin of Firewater Response, several rooms in the school had experienced high relative humidity with subsequent mold growth on desktops, ceiling diffusers, etc. in those rooms. The mold was remediated by Firewater prior to the site visit by the investigator. Most of the classrooms have their own heating, ventilation, air conditioning (HVAC) systems but maintaining a balanced air supply to the numerous classrooms of the school has been an ongoing issue. The project was scheduled and completed on August 17, 2022. Digital photographs are supplied in order to visualize the areas sampled at the school.

#### Field Summary

Penn Hills Elementary was built in 2014 and 1200 students attend grades K-5. Spore trap air samples were collected in the classrooms. Elevated relative humidity readings were noted and recorded in some of the sampled rooms. Chris Martin of Firewater Response accompanied Herb Layman during the collection of the mold samples.

Area/Room	Temperature °F	Relative Humidity
Classroom 116	69.0°	47,4 %
Classroom 118	69.0°	46.8 %
Classroom 121	66.1°	44.8 %
Classroom 110	65.2°	63.5 %
Classroom 150	66.5°	64.3 %
Classroom 222	67.4°	61.8 %
Classroom 201B	67.5°	58.4 %
Classroom 130	73.7°	43.7 %
Outdoor – Front Entrance	73.2°	64.0 %

#### Table 1. Ambient conditions as measured with a GE Digital Protimeter.

**Table 1** shows the ambient measurements from the sampled areas. Increased relative humidity readings were noted in classrooms 110, 150, and 222. Although 60% is at the top of the range for recommended relative humidity according to the specification of the American Society of Heating, Refrigeration and Air Conditioning Engineers (*ASHRAE Standard 55 – Thermal Comfort Standard for Commercial Buildings*). Indoor relative humidity should be maintained between 35% and 50% year-round. However, in the winter months in the absence of humidification, low indoor relative humidity readings may be recorded (<30% RH).

#### <u>Sampling Plan</u>

A sampling plan was adopted to test the hypothesis that the airborne level of fungal spores in the air of the classrooms would show a "**normal fungal ecology**" after a walk-through, visual assessment, and collection of a spore trap air samples for mold.

The following sampling plan was adopted:

Table 2	. Samp	ling Plan
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Area	Sample #	Air-O-Cell Spore Trap
Classroom 116	A-1	Х
Classroom 118	A-2	Х
Classroom 121	A-3	Х
Classroom 110	A-4	Х
Classroom 150	A-5	Х
Classroom 222	A-6	Х
Classroom 201B	A-7	Х
Classroom 130	A-8	Х
Outdoor – Front Entrance	A-9	Х
Field Blank	A-10	Х

The air samples were collected on Air-O-Cell spore trap cassettes using a Zefon Biopump<sup>TM</sup> calibrated at 15 liters per minute (calibration of the pump was performed at the site before the initial sample was collected). Indoor spore trap air samples were collected for five minutes producing 75-liter samples. The outdoor sample was collected for two minutes producing a 30-liter sample. A field blank spore trap cassette was included with the sample set for quality assurance purposes to ensure that no cross contamination occurred during the handling or analytical process.

The samples were transported to the laboratory the same day and received in good condition.

#### Laboratory Results

Laboratory results are included below. All samples were analyzed at U.S. Micro-Solutions, Inc. Environmental Microbiology Laboratory. The laboratory is accredited by the American Industrial Hygiene Association (AIHA-LAP, LLC) for the analysis of fungi and bacteria in environmental samples.

Area or Room	Total Spore Count (spores/m <sup>3</sup> of air	Rank Order Assessment Predominant Mold Genera
Classroom 116	143	<ul> <li>64% Basidiospores</li> <li>18% Ascospores</li> <li>9% Cladosporium spp.</li> <li>9% Pithomyces spp.</li> </ul>
Classroom 118	13	100% Ascospores
Classroom 121	26	50% Basidiospores 50% <i>Cladosporium</i> spp.
Classroom 110	13	100% Basidiospores
Classroom 150	91	<ul> <li>43% Cladosporium spp.</li> <li>29% Basidiospores</li> <li>14% Aspergillus/Penicillium like conidia</li> <li>14% Pithomyces spp.</li> </ul>
Classroom 222	26	50% Aspergillus/Penicillium like conidia 50% Basidiospores
Classroom 201B	52	75% <i>Cladosporium</i> spp. 25% Basidiospores
Classroom 130	26	100% Cladosporium spp.
Outdoor – Front Entrance	198	83% Basidiospores 17% Ascospores
Field Blank	-	No particulates or spores noted

### Table 3. Air Samples (Spore Trap Counts)

### Field Impression & Interpretation

This investigator uses criteria from various sources when evaluating indoor environments. Published working papers include documents from professional industrial hygienists, microbiologists, and indoor environmental scientists, e.g., *Recognition, Evaluation, and Control of Indoor Mold, 2<sup>nd</sup>* Edition (*AIHA – 2020*), and the *Institute of Inspection, Cleaning and Restoration Certification's (IICRC) S-520/2015 Standard for Professional Mold Remediation 3<sup>rd</sup> Ed.* The investigator also applies knowledge gained from numerous past investigations in determining when laboratory and visual results indicate a normal fungal ecology for each type of structure.

**Indoor to outdoor** (distribution) – Generally, is it favorable to have lower indoor spore counts as compared to outdoor spore counts and to see similar types and

distribution of fungi indoors and outdoors. The results of the air samples represent a short sampling time frame and should not be considered an exposure assessment. There are no methods currently available for assessing the health effects of human exposure to mold. These air tests are area sampling of the school and provide an indication as to the fungal ecology of the indoor environment. This project involved spore trap air samples and a visual assessment of the school. The predominant spore type in the classrooms was basidiospores and this represents the infiltration of outdoor air (via HVAC) into the classrooms and hallways. At this time of the year, the outdoor air usually reveals the predominance of basidiospores, *Cladosporium* spores, and ascospores.

The results of the spore trap air samples indicate "acceptable levels" of mold spores at the time of the sampling and it represents a Condition 1 or a "normal fungal ecology" as stated in the *Institute of Inspection, Cleaning and Restoration Certification's* ANSI/IICRC S-520-2015 Standard for Professional Mold Remediation 3<sup>rd</sup> Edition. A Condition 1 is defined as "an indoor environment that may have settled spores, fungal fragments or traces of actual growth whose identity, location, and quantity are reflective of a normal fungal ecology for a similar indoor environment." Therefore, the hypothesis that the air samples for mold spores in the school represent a "normal fungal ecology" or a Condition 1 has been proven.

#### **Recommendations**

Recommendations are based upon scientific findings from laboratory and visual data. As with any recommendation, no one single action is guaranteed to eliminate building-related complaints.

- 1. Annual maintenance on the HVAC systems should be performed including changing of the air filters.
- 2. Indoor relative humidity should be maintained between 35% and 50% year-round. Maintaining these levels discourages mold growth. Maintaining humidity levels below 50% will also inhibit the reproductive cycle of dust mites. Further, dust mites cannot survive humidity levels below 45%. Dust mites are a major allergen source for people in indoor environments.

All opinions discussed in this report are expressed within a reasonable degree of expert certainty.

## **Contact**

Questions regarding this report should be directed to Herb Layman at 412-576-0284. No portion of this report may be released to or discussed with third parties without the expressed written permission of the customer. USMS personnel are restricted by internal confidentiality policies from discussing this project with any individual other than the "Customer Contact" listed herein. The Customer Contact may specify other individuals with whom USMS personnel may discuss sample results by completing a waiver of confidentiality form, which is available from the laboratory by calling 724-853-4047.

Herbert Caryman Herbert Layman, BS, SM, CIEC

Investigator, Microbial Consultant

Inc.	Phor	U.S. N ne: (724	Aicro-S 4) 853-4	Solutions, Inc 1047 Fax: (72 <u>w</u>	:. * 302 24) 853 ww.usr	Unity -4049 nslab.c	Unity Plaza * Latrobe, PA 15650 4049 AIHA-LAP, LLC EMLAP # 1 <u>Islab.com</u>						
Customer Name: Customer Address:	Fire 1130 Pitts	water   0 Leba sburgh	Respo non R I, PA 1	nse d 5122		Sample Date:AuguDate Received:AuguDate of Report:Augu			Augus Augus Augus	st 17, 2022 st 17, 2022 st 22, 2022			
Customer Phone: PO Number: Project Name/Number:	(412 Pen	2) 551-€ n Hills	5865 Eleme	entary		Fax: Attent	tion:		Stefa	n Shar	ning		
Customer sample numbers below are uniquely identified by prefixing Laboratory #         88420-22           Airborne Spore Trap Analysis         -         Air-O-Cell													
		1		Analytical M	ethod:	1	MIC 01	1		1			
Total Volume (L)				75				75				75	
Sample Number				A-1				A-2				A-3	
Location:			F	Room 116			F	Room 118			F	Room 121	
Particle ID		Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%
Alternaria-like													
Ascospores		2	13	26	18%	1	13	13	100%				
Aspergillus/Penicillium-like													
Basidiospores		7	13	91	64%					1	13	13	50%
Bipolaris/Drechslera													
Cercospora													
Chaetomium-like													
Cladosporium		1	13	13	9%					1	13	13	50%
Curvularia													
Epicoccum													
Helicomyces													
Nigrospora													
Oidium													
Pithomyces		1	13	13	9%								
Polythrincium													
Rusts													
Smuts/ Myxomycetes													
Stachybotrys													
Torula													
Trichoderma-like Unidentified dematiaceous conidia Unidentified hyaline conidia													
Total Mold (Spores/m³ of air)		11		143		1		13		2		26	
Pollen		1	13	13		0	13	< 13		0	13	< 13	
Hyphal Fragments													
Insect Fragments													
Plant Fragments													
Skin Cell Fragments				1				1				1	
Debris				1				1		1			
Analyst Initials				BM				BM		BM			
Date Analyzed				08/17/22				08/17/22				08/17/22	
Exp Date of Cassette:		ا بر مرافقات	aaa - 11-	05/2023	valat- :	hida (h		05/2023	Deservice			05/2023	

Entire trace analyzed. Samples are in good condition unless otherwise noted. Results relate only to the samples tested as received. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The *Aspergillus/Penicllium*-like category cannot be differentiated by non-viable sampling methods. Results are not blank corrected. Blank Lines = None Detected

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Technical Manager: Jeanna & Kiska

Inc.	Phor	U.S. N ne: (724	Aicro-S I) 853-4	Solutions, Inc 1047 Fax: (7 <u>w</u>	c. * 302 24) 853- ww.usn	2 Unity Plaza * Latrobe, PA 15650 -4049 AIHA-LAP, LLC EMLAP # 1 <u>nslab.com</u>				) 03009			
Customer Name: Customer Address:	Fire 1130 Pitts	water ) Leba sburgh	Respo non R I, PA 1	nse d 5122		Sample Date:AugDate Received:AugDate of Report:Aug			Augu Augu Augu	ust 17, 2022 ust 17, 2022 ust 22, 2022			
Customer Phone: PO Number: Project Name/Number:	(412 Pen	) 551-6 n Hills	6865 Eleme	entary		Fax: Attent	Fax: Attention: Stefa			n Shar	ning		
Customer sample numbers below are uniquely identified by prefixing Laboratory #         88420-22           Airborne Spore Trap Analysis         -         Air-O-Cell											0-22		
	-			Analytical M	lethod:	1	MIC 0	1		<b>r</b>			
Total Volume (L)				75				75				75	
Sample Number				A-4				A-5				A-6	
Location:			1	Room 110				Room 150			F	Room 222	
Particle ID		Raw	AS	Spores/m <sup>3</sup>	%	Raw	AS	Spores/m <sup>3</sup>	%	Raw	AS	Spores/m <sup>3</sup>	%
Alternaria-like		61.				<u> </u>				<u> </u>			
Ascospores													
Aspergillus/Penicillium-like						1	13	13	14%	1	13	13	50%
Basidiospores		1	13	13	100%	2	13	26	29%	1	13	13	50%
Bipolaris/Drechslera			10		10070	_	10		2070		10		0070
Cercospora													
Chaetomium-like													
Cladosporium						3	13	39	43%				
Curvularia													
Epicoccum													
Helicomyces													
Nigrospora													
Oidium													
Pithomyces						1	13	13	14%				
Polythrincium						-							
Rusts													
Smuts/ Myxomycetes													
Stachybotrys													
Torula													
Trichoderma-like													
Unidentified dematiaceous conidia													
Total Mold (Spores/m³ of air)		1		13		7		91		2		26	
Pollen		0	13	< 13		1	13	13		0	13	< 13	
Hyphal Fragments													
Insect Fragments													
Plant Fragments													
Skin Cell Fragments				1				1				1	
Debris				1		1				1			
Analyst Initials				BM				BM				BM	
Date Analyzed				08/17/22			-	08/17/22				08/17/22	
Exp Date of Cassette:	Ļ			05/2023				05/2023	<u> </u>			05/2023	

Enture trace analyzed. Samples are in good condition unless otherwise noted. Results relate only to the samples tested as received. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The *Aspergillus/PenicIlium*-like category cannot be differentiated by non-viable sampling methods. Results are not blank corrected. Blank Lines = None Detected

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Inc.	Phor	U.S. Micro-Solutions, Inc. * 302 Unity Plaza * Latrobe, PA 15650 hone: (724) 853-4047 Fax: (724) 853-4049 AIHA-LAP, LLC EMLAP # 103009 www.usmslab.com											
Customer Name: Customer Address:	Fire 1130 Pitts	ewater Response 30 Lebanon Rd tsburgh, PA 15122					Sample Date:AugDate Received:AugDate of Report:Aug			st 17, 2 st 17, 2 st 22, 2	2022 2022 2022		
Customer Phone: PO Number: Project Name/Number:	(412 Pen	2) 551-€ n Hills	551-6865 I Hills Elementary					Fax: Attention: Stefa			ning		
Customer sample numbers below are uniquely identified by prefixing Laboratory # 88420-22           Airborne Spore Trap Analysis         -         Air-O-Cell           Analytical Method:         MIC 01													
Total Valuma (L)	1	1			emou.			75				20	
Sample Number				75 A-7				7.5 A_9				 	
Location:			R	200m 201B			F	Room 130			Front En	A-9	r
Particle ID		Raw	AS	Spores/m <sup>3</sup>	%	Raw	AS	Spores/m <sup>3</sup>	%	Raw	AS	Spores/m <sup>3</sup>	%
Alternaria-like		01.				01.				01.			
Ascosporos										1	22	22	170/
Aspergillus/Penicillium-like												33	17.70
Basidiospores		1	13	13	25%					5	33	165	83%
Bipolaris/Drechslera					2070								0070
Cercospora													
Chaetomium-like													
Cladosporium		3	13	39	75%	2	13	26	100%				
Curvularia													
Epicoccum													
Helicomyces													
Nigrospora													
Oidium													
Pithomyces													
Polythrincium													
Rusts													
Smuts/ Myxomycetes													
Stachybotrys													
Torula													
Trichoderma-like													
Unidentified dematiaceous conidia Unidentified hvaline conidia													
Total Mold (Spores/m³ of air)		4		52		2		26		6		198	
Pollen		4	10	43		0	10	26		0	33	< 33	
Hyphal Fragments		1	13	13		2	13	20					
Insect Fragments													
Plant Fragments													
Skin Cell Fragments				1		1				1			
Analyst Initials				BM						1 BM			
Date Analyzed	-			08/17/22				08/17/22				08/17/22	
Exp Date of Cassette:				05/2023				05/2023				05/2023	
Entire trace each mod. Complex are in a		ه ماند م ماند		nuine neted Desult		hutatha a			Deculto er				

Enture trace analyzed. Samples are in good condition unless otherwise noted. Results relate only to the samples tested as received. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The *Aspergillus/PenicIlium*-like category cannot be differentiated by non-viable sampling methods. Results are not blank corrected. Blank Lines = None Detected

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Customer Name: Customer Address:	Fire 113 Pitts	irewater Response 130 Lebanon Rd ittsburgh, PA 15122					Sample Date: Augu Date Received: Augu Date of Report: Augu			st 17, 2022 st 17, 2022 st 22, 2022			
Customer Phone: PO Number: Project Name/Number:	(412 Pen	) 551-6865 F // n Hills Elementary					Fax: Attention: Ste			n Shan	ning 88420	1-22	
Customer sam	Ai	irborne	Spore	Trap Analysis	ethod:	-		Air-O-Cell	atory <del>#</del>		00420		
Total Volume (I.)	T	I		N/A		1		•		I			
Sample Number	1			A-10		1							
Location:			F	ield Blank									
Particle ID		Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%	Raw ct.	AS	Spores/m <sup>3</sup>	%
Alternaria-like													
Ascospores													
Aspergillus/Penicillium-like													
Basidiospores													
Binolaris/Drechslera													
Corcospora													
Chastomium like													
Cladeonorium													
Ciadosponum													
Epicoccum													
Helicomyces													
Nigrospora													
Oidium													
Pithomyces													
Polythrincium							-						
Rusts													
Smuts/ Myxomycetes													
Stachybotrys													
Torula													
Trichoderma-like													
Unidentified hyaline conidia													
Total Mold (Spores/m³ of air)													
	T									1			
Pollen	1												
Hyphal Fragments													
Insect Fragments													
Plant Fragments													
Skin Cell Fragments				0									
Debris				0									
Analyst Initials				BM									
Date Analyzed	1			08/17/22									
Exp Date of Cassette:				05/2023									

Enture trace analyzed. Samples are in good condition unless otherwise noted. Results relate only to the samples tested as received. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The *Aspergillus/PenicIlium*-like category cannot be differentiated by non-viable sampling methods. Results are not blank corrected. Blank Lines = None Detected

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\*End of Report\*



# U.S. Micro-Solutions, Inc.

302 Unity Plaza Latrobe, PA 15650 P: 724-853-4047 F: 724-853-4049 labcom@usmslab.com





#### LABORATORY TEST REQUEST – CHAIN OF CUSTODY

Customer Name	Firewa	ter Respo	onse		Phone #: 412-551-6865	Phone #: 412-551-6865 FAX #:						
Address: 1130	Leband	on Rd			City: Pittsburgh	Zip: 151	122					
Attention To: St	efan Sh	aming			E-Mail: stefan@firewaterrespons	e.com						
Sample Obtained	d By: Herl	o Laymar	ר _		Results: 🔲 FAX 🔳 E-Mail	PO#	Proposal	#				
Project Name/Nu												
Turn-Around-Tim (Spore Trap & D	ne: ME Only)*		Standard (48	-72 hr) Ne	ext Day (24 hr, M-F) Same Day (6 hr, N	1-F) 3-Hour	r (M-F)	Saturday				
Comments:												
Sample #		Sample Volume/Area										
A-1	08/17/22	9:00 AM	ST	SPT	Room 11		75L					
A-2	08/17/22	9:08 AM	ST	SPT	Room 11	75L						
A-3	08/17/22	9:15 AM	ST	SPT	Room 12		75L					
A-4	08/17/22	9:25 AM	ST	SPT	Room 11	0		75L				
A-5	08/17/22	9:35 AM	ST	SPT	Room 15	0		75L				
A-6	08/17/22	9:45 AM	ST	SPT	Room 22	2		75L				
A-7	08/17/22	9:55 AM	ST	SPT	Room 201	В		75L				
A-8 08/17/22 10:03 AM ST SPT Room 130 75L												
Relinquished By	(Customer	MUST sign)	$\mathcal{A}$	$\cap$		Date 8	& Time -12-2	2 11 A				
Received By – La	Received By – Lab Use Ofily Date & Time Lab #											
Page 1 of 3	SAM	02.01 Form	3 v6 C	CR 22-005	Effective 01-12-22							

Sar	Sample Code										
Α	Air Plate										
В	Bulk										
ST	Spore Trap										
S	Swab										
w	Water										
Т	Таре										
0	Other										

de		Analysis Code									
e	DME	Direct Microscopic Exam	COL	Colilert – Presence/absence of <i>E. coli</i> , coliforms Heterotrophic Plate Count							
	SPT	Spore Trap 🗌 Allergenco-D 🔳 AirOCell 🔲 M5	HPC								
rap	FUNG	Fungal Culture – Counts w/ Identification	MYC	Mycobacteria Culture (nontuberculous)							
	BACT	Bacterial Culture - Counts w/ Identification	MRSA	Methicillin-resistant Staphylococcus aureus Culture							
	BACT24	Bacterial Culture (24 hr) - Counts w/ presence/absence of gram-negatives	DUO	Duodenoscope Culture							
	SS24	Sewage Screen (24 hr) - Presence/absence E. coli, coliforms, enterococci (fecal streptococci)	нси	Heater/Cooler Water Culture includes nontuberculous mycobacteria and HPC							
	IDS	Species Identification by MALDI-TOF		Opportunistic Pathogen Panel (or separate) PSA - Pseudomonas aeruginosa Culture							
	BART	Microbially Influenced Corrosion Panel Iron-related, sulfate-reducing, slime-forming bacteria		BURK - Burkholderia cepacia complex Culture ACIN - Acinetobacter Culture							

\*All samples received after 1:00 p.m. Monday-Friday will be considered received the NEXT business day.

Same Day and Next Day samples received on Saturday will be reported on Monday and Tuesday, respectively.



U.S. Micro-Solutions, Inc. 302 Unity Plaza Latrobe, PA 15650 P: 724-853-4047 F: 724-853-4049





#### LABORATORY TEST REQUEST - CHAIN OF CUSTODY **Additional Samples**

Customer Name	Firew	ater R	lespon	se	Project Name/Number: Penn Hills Elementary				
Sample #	San Date	nple / Time	Sample Code	Analysis Code	Sample Loc	ation & Descriptio	'n	Sample Volume/Area	
A-9	08/17/22	10:15 AM	ST	SPT	Front Entra	ance - Ou	tdoor	30L	
A-10	08/17/22	10:10 AM	ST	SPT	Fiel	d Blank		N/A	
						-			
								_	
Possived Du L	ab Line Orth		1	21	Data 9 Time		Lob#		
Received By – La	ab Use Unly		l		08/17/2	121130	88420-2	99	