

Windjammer Environmental LLC 6710 Oxon Hill Road Suite 210 Oxon Hill, MD 20745 (888) 270-8387 info@wjenviro.com

December 18, 2020

Alex Baylor Environmental Specialist PGCPS Environmental Safety Office 13306 Old Marlboro Pike Upper Marlboro, MD 20772 Alex.baylor@pgcps.org

Re:

IAQ and Mold Assessment Report Prince George's County Public Schools Rose Valley Elementary School

Dear Mr. Baylor,

Windjammer Environmental LLC (Windjammer) was contracted to conduct a visual assessment, measure indoor air quality (IAQ) parameters and sample for mold in a limited number of areas at the Rose Valley Elementary School located at 9800 Jacqueline Drive, Fort Washington, MD. This assessment is intended to check on effectiveness of operations activities that are focused on preventing conditions that can lead to the development of an environment which is historically associated with an increase in reports of poor IAQ. This assessment was conducted by Certified Industrial Hygienist (CIH) Katherine Dietrich on December 4, 2020.

This assessment included:

- Measurement of temperature, relative humidity, carbon dioxide (CO<sub>2</sub>) and carbon monoxide (CO)
- Collection of nonviable airborne mold samples; and
- Visual assessment of select areas.

### Methods

A TSI IAQ-Calc Model 7545 was used to measure temperature, relative humidity, carbon dioxide (CO<sub>2</sub>) and carbon monoxide (CO).

Air samples for non-viable airborne fungi were collected on Air-O-Cell cassettes using a Zefon Bio-Pump Plus portable sampler calibrated to collect 15 liters of air per minute (lpm). The sampling period for the all samples was five minutes.

Direct read instrumentation used were calibrated in accordance with the manufacturer's specifications prior to the start of this assessment.

All samples collected were hand delivered to and analyzed by AMA of Lanham, MD. AMA is accredited by the American Industrial Hygiene Association (AIHA) for microbial analysis and participates in the Environmental Microbiology Laboratory Accreditation Program (EMLAP).

## Guidance

The Occupational Safety and Health Administration's (OSHA) Permissible Exposure Limits (PELs) are the only enforceable regulatory standards for indoor air quality. However, other organizations such as the American Society of Heating Refrigeration and Air Conditioning Engineers (ASHRAE) and the Environmental Protection Agency (EPA) have developed widely accepted consensus standards that can be used to assess the suitability of indoor air quality.

#### ASHRAE Standards

62.1-2013 and 55-2013 are consensus standards that outline acceptable practices for the design of ventilation systems in commercial and residential structures. Both documents were developed "to specify minimum ventilation rates and indoor air quality that will be acceptable to human occupants and are intended to minimize the potential for adverse health effects." The standards also consider chemical, physical, and biological contaminants and other factors that impact indoor air quality and affect occupant health and comfort.

ASHRAE 55-2013 recommends temperature and relative humidity ranges that are considered suitable for indoor air quality. Recommended ranges are as follows:

- Temperature be maintained between 67 and 82 degrees Fahrenheit (°F)
- Relative humidity to be maintained below 65%

#### Carbon Dioxide

 $CO_2$  is widely used as a surrogate gas in the assessment of indoor air quality. It is a byproduct of respiration and can be used to determine the effectiveness and/or management of building ventilation systems. Based on ASHRAE recommendations, indoor  $CO_2$  concentrations that are below 1000 parts per million (ppm) or have a differential of less than 700 ppm compared to outside concentrations are considered to be suitable.

For example, if outside CO<sub>2</sub> concentrations are measured at 380 ppm, then indoor CO<sub>2</sub> concentrations measured up to 1080 ppm would be considered suitable.

### Carbon Monoxide

OSHA has established a PEL for CO of 35 ppm over a time weighted average (TWA) of 8 hours and a ceiling CO exposure limit of 200 ppm in a five-minute period. ASHARE has adopted the EPA National Ambient Air Quality Standard (NAAQS) for CO of 9 ppm when evaluating indoor air quality. In nonindustrial settings, the NAAQS standard is commonly used to assess the suitability of IAQ.

#### Nonviable Airborne Fungi (Mold)

There are no set regulatory limits established for acceptable airborne fungi levels. However, indoor levels within schools and offices are generally lower than outdoor levels except during the winter when outdoor mold may be less active or after rain events. The distribution of airborne species of fungi found in indoor air is expected to be similar in proportion to outside distributions. The type and concentrations of the airborne microorganisms can be used to determine if there is a potential hazard to occupants which requires action.

## Findings

#### Indoor Air Quality

Indoor air quality measurements collected were satisfactory with respect to temperature, relative humidity, carbon dioxide (CO<sub>2</sub>), and carbon monoxide (CO). Recorded indoor air quality results are summarized in the following Table.

	Table 1         Indoor Air Quality Measurement Summary         (Measurements Recorded on December 4, 2020)										
Measurement Location	Temperature (°F)	Relative Humidity (%)	CO₂ (ppm)	CO (ppm)							
Classroom 6	68.9	34.4	421	0.0							
Classroom 2*	69.9	29.1	419	0.0							
Classroom 11*	70.2	36.0	417	0.0							
Media Center*	72.2	36.0	424	0.0							
Gymnasium	72.4	29.3	423	0.0							
Classroom 14*	74.8	29.4	419	0.0							
Classroom 24*	76.7	31.1	438	0.0							
Classroom 21	77.8	27.2	441	0.0							
Outdoors*	56.7	38.2	410	0.0							

ppm – parts per million

\* - spore-trap sample

#### Non-viable Airborne Fungi Sampling

Measured total indoor airborne fungi concentrations were determined have a normal ecology and with indoor airborne fungi concentrations lower than measured total outdoor fungi concentrations at this time. A complete laboratory analysis report is available for viewing in Attachment A.

#### Visual Assessment

There was light rain outdoors at the beginning of the assessment – but it had stopped when the outdoor measurements were taken. This is notable as heavy rain can have the effect of "cleaning" the air and may result in indoor mold spore trap samples appearing elevated when they are not. A walk-through of the hallways and a limited number of classrooms and public areas was carried out. No

bathrooms, mechanical rooms, kitchen areas, offices or storage areas were visited. There were a limited number of staff present and no students.

No unexpected odors were detected - however a mask was worn throughout the inspection. Except as noted, floors, walls and ceiling tiles observed were in acceptable condition. The housekeeping was acceptable.

The following areas for further investigation or improvement were noted:

- Classroom 2 cracked, bubbled and missing paint on interior side of cement block exterior wall
- Classroom 9 peeling paint on wall and staining on bulletin board (greater than 9 square feet) interior side of exterior wall.
- Media Center trace dirt and rust on diffuser grilles. Water staining and discoloration on wood trim around HVAC grilles.
- Room 14 paint loss on interior side of exterior wall.
- Walkway to Gymnasium rust on ceiling tile support grid.

#### **Conclusions & Recommendations**

For the areas sampled the results are an indication that the spores sampled in the rooms assessed are more likely to be originating in the outdoor environment rather than an interior source - reducing the chance of undetected overgrowth or colonization in the building. While there are no standards for airborne levels of mold, this approach of comparing indoor to outdoor, and looking at the species found, is one tool identified by organizations such as the American Industrial Hygiene Association when identifying assessment methods and improvement measurement in indoor air quality. Please note the following considerations for improvement.

- Identify the cause the paint damage on the interior side of the exterior wall.
- Identify the source of the moisture that is staining the wood trim and causing the rust on the diffuser grilles in the Media Center and the ceiling tiles grid on walkway to the gymnasium.

At this time, no other recommendations are provided. Windjammer appreciates the opportunity to provide this indoor air quality assessment. If you have any questions or comments, please feel free to contact us at (888) 270 - 8387.

Best regards,

Damien Hammond Sr, MS, CSP, CIH President

Attachment A: Microbial Laboratory Report (Air)

Katherine (Kay) Dietrich, CIH, CSP Certified Industrial Hygienist

# **Attachment A**





## ASTM D7391-09 Spore Trap Analysis Report

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Cladospor Curvul	ium 2	15	52	104	9.5%	Cladosporiu Curvular	m 1	15	52	52	8.3%	Cladosporium Curvularia					
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Ascospo Basidiospo	ores 4	15 15	52 52	208 676	19% 61.9%	Ascospore	es 5	15 15	52 52	260 260	41.7% 41.7%	Ascospores Basidiospores	1 3	15 15	52 52	52 156	25% 75%
Altern	Raw Ct	Trav/Flds	A.S.	sp/m <sup>3</sup>	%	Alternar	Raw Ct	Trav/Flds	A.S.	sp/m <sup>3</sup>	%	Alternaria	Raw Ct	Trav/Flds	A.S.	sp/m <sup>3</sup>	%
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Chain of Custody: Client: Address: Attention:	624373 Windjammer Enviro 6710 Oxon Hill Roa Suite 210 National Harbor, ME Kay Dietrich	d				Job Location: Job Number:	PGCPS IAQ Rose Valley El Not Provided Not Provided	ementary Scl	lool			Date Submitted: Person Submitting: Date Analyzed: Report Date:		12/04/202 Kay Dietric 12/10/202 12/11/202	ch D		





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AMA Sample # Client ID Analyst ID Collection Apparatus Sample Volume (L) Sample Condition Debris Loading Location		624373-4 201204-4 CD Air-O-Cell 75 Acceptable 1 Room 14				AMA Sample # Client ID Analyst ID Collection Apparatus Sample Volume (L) Sample Condition Debris Loading Location	20 CE Air 75 Ac 1	-O-Cell				AMA Sample # Client ID Analyst ID Collection Apparatus Sample Volume (L) Sample Condition Debris Loading Location	20 CI Ai 75 Ao 2	r-O-Cell			
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Altern	iaria					Alternar	ria					Alternaria	1	15	52	52	1.5%
Ascosp	ores 5	15	52	260	29.4%	Ascospore	es 4	15	52	208	18.2%	Ascospores	7	15	52	364	10.6%
Basidiospo	ores 12	15	52	624	70.6%	Basidiospore	es 17	15	52	884	77.3%	Basidiospores	34	15	52	1768	51.5%
Bipolaris/Drechslera/H	elm.					Bipolaris/Drechslera/Helr	m.					Bipolaris/Drechslera/Helm.					
Chaetor	nium					Chaetomiu	im					Chaetomium					
Cladospor	rium					Cladosporiu	ım 1	15	52	52	4.5%	Cladosporium	2	15	52	104	3%
Curvu	laria					Curvular	ria					Curvularia					
Penicillium / Asperg	illus					Penicillium / Aspergillu	us					Penicillium / Aspergillus	22	15	52	1144	33.3%
Smuts/Periconia/Myxomyc	etes					Smuts/Periconia/Myxomycete	es					Smuts/Periconia/Myxomycetes					
Stachybotrys/Memnon	iella					Stachybotrys/Memnoniel	lla					Stachybotrys/Memnoniella					
Uloclac	lium					6 Ulocladiu	Im					Ulocladium					
Unkn	own					Unknow	vn					Unknown					
Cercos	oora					Cercospo	ra					Cercospora					
Hyphal Fragme	ents <sup>*</sup> 2	15	52	104	11.8%	Hyphal Fragment	ts*					Hyphal Fragments*					
Total Raw	<b>Ct:</b> 17		Total s	sp/m <sup>3</sup> :	884	Total Raw C	<b>X:</b> 22	1	fotal s	sp/m <sup>3</sup> :	1144	Total Raw Ct:	66		Total s	sp/m <sup>3</sup> :	3432
	Co	mments					Comme	nts					Comme				





#### ASTM D7391-09 Spore Trap Analysis Report

Chain of Custody:	624373	Job Name:	PGCPS IAQ	Date Submitted:	12/04/2020
Client:	Windjammer Environmental	Job Location:	Rose Valley Elementary School	Person Submitting:	Kay Dietrich
Address:	6710 Oxon Hill Road	Job Number:	Not Provided	Date Analyzed:	12/10/2020
	Suite 210	P.O. Number:	Not Provided	Report Date:	12/11/2020
	National Harbor, MD 20745				
Attention:	Kay Dietrich				

### **Spore Comparison Guide**

The criteria for these specifications are outlined, but not limited to those listed, below. Final specifications may differ from the listed criteria for certain samples. AMA Analytical Services, Inc. reserves the right to make changes to these criteria at any time without notice.

Normal ecology	Slightly above normal ecology	Moderately above normal ecology	Substantially above normal ecology	

Stachybotrys / Memnoniella, and Chaetomium	Other Spores* (Control Present)	Other Spores* (No Control)
1-4 Spores: Yellow	< 10 Spores: Insignificant (no color)	< 10 Spores: Insignificant (no color)
5-9 Spores: Orange	<= Control's spore count: Green	10-20 Spores: Yellow
10+ Spores: Red	Between Control and 2x Control: Yellow	20-50 Spores: Orange
	Between 2x Control and 3x Control: Orange	50+ Spores: Red
	3x+ Control: Red	

\*No evalutation is provided for the following spore types: Other, Other Colorless, and Unknown Fungi, and Misc

Interpretation of the data contained in this report is the sole responsibility of the client or the persons who conducted the field work. There are no federal or national standards for the number 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 be comparable to 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.

This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. Sampling techniques, possible contaminants, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical evaluation provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. AMA Analytical Services, Inc. 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.





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Attention:	Kay Dietrich				

### **General Comments, Disclaimers, and Footnotes**

oading; 5 = >90%
er types of spores whose ecilomyces, Wallemia, rm new individuals. esultant fungal growth that
whole number if the spore le Raw Count.

Technical Director Tristan Ward

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client.





## MOLD SPORE DESCRIPTIONS

#### Alternaria

Alternaria is ubiquitous in the environment and are normal agents of decay and decomposition. The spores are airborne and common outdoors than indoors isolated from plants, soil, and food. Indoors, the spores are found in house dust, carpets, textiles, wallboard and window frames. The production of melanin-like pigment is one of its major identifying characteristics. The club-shaped spores (conidia) are single or in long chains. They can grow thick colonies with grayish-white surfaces at the beginning which later darken to greenish black or olive brown colors. Health Effects: Allergies are common, but serious infections are rare, except in people with compromised immune systems. Certain species of this genus are often prolific producers of a variety of toxic compounds whose effects on human health are not well known.

#### Ascospores

Ascospores are spores formed inside an ascus (asci-plural) or sac-like cell which is contained inside a fruiting body called an ascocarp or an ascoma (ascomata-plural). An ascus typically contains a definite nuimber of ascospores, usually eight. Ascospores are unique in shape, size, and color as to the Genus/species they represent. These spores are specific to fungi classified as Ascomycetes. They are ubiquitous in nature. Many decay organic matter, others are plant or animal pathogens. They can grow indoors on damp materials. Release of ascospores are released by forcible ejection and dispersed by wind, water, animals and other agents. Health Effects: Depending on the Genera, Ascospores may be allergenic.

#### Basidiospores

Basidiospores are reproductive spores produced by a group of fungi called basidiomycetes. This group includes the mushrooms, shelf fungi and various other macrofungi. Basidipspores serve as the main air (wind) dispersal units for the fungi and their release is dependent upon moisture. The structure of the spore complex can develop in various manners resulting in different appearances. It is often found growing in soil, decaying plant debris, compost piles and fruit rot. Indoors, it can be found on water damaged building materials (chipboard /OSB, plywood, wallpaper, and glue) as well as on food items (dried foods, cheeses, fruits, herbs, spices, cereals). Health effects: Some basidiospores may produce toxins and can act as allergens. They have not been reported to be pathogens.

#### Cercospora

Cercospora is a cosmopolitan, fungus isolated from agricultural areas, especially during harvest. Several species of this genus cause plant diseases, mostly forms of leaf spot. The spores are colorless or pale, smooth, cylindrical often with a broad end point or almost club-shaped. Health Effects: The health effects of this spore are not well documented or studied.

#### Cladosporium

Cladosporium is the most common indoor and outdoor mold. The spores are wind dispersed and are often extremely abundant in outdoor air. Many species are commonly found on living and dead plant material. Indoors, they may grow on surfaces with high moisture or high humidity levels such as damp window sills, poorly ventilated bathrooms and soiled refrigerators. It produces powdery or velvety olive-green to brown or black colonies. The conidia (spores) vary depending on the species and are formed in simple or branching chains with multi-attachment points. Health Effects: Cladosporium species are rarely pathogenic to humans, but have been reported to occassionally cause sinusitis and pulmonary infections as well as infections of the skin and toenails. The airborne spores are significant allergens, and in large amounts they may severely affect asthmatics and people with respiratory diseases.

#### Hyphal Fragments

Hyphal Fragments are segments or pieces of hyphae or mycelium that may have broken off during sampling (air, tape, dust). The mycelium is the entire mass of hyphae that makes up the vegetative body of a fungus. The presence of hyphal fragments may indicate the presence of viable mold.





#### Penicillium/Aspergillus Like

Penicillium and Aspergillus are ubiquitous, filamentous fungi that are found in soil, decaying plant debris, compost piles, and in the air. Indoors, spores are commonly found in house dust, in water-damaged buildings (wallpaper, wallpaper glue, decaying fabrics, moist chipboards, and behind paint) as well as fruit and grains. They are the most common fungal genera, worldwide. Both produce chains of spores that are small, round to oval, colorless or slightly pigmented, and smooth to rough walled. These spores are indistinguishable between the two as well as other genera, such as Gliocladium, Trichoderma, Paecilomyces, and Scopulariopsis. They differ as to their conidiophores or fruiting bodies. While, Aspergillus spores are produced from phialides supported on conidia heads or swollen vesicles, Penicillium spores are produced on finger-like projections. Depending on species, typical colonies of Aspergillus are initially white and later turn to either shades of green, yellow, orange, brown or black. Texture is usually velvety to cottony. Typical colonies of Penicillium, other than Penicillium marneffei (yeast-like at 37oC), grow rapidly, white in color at first, later becoming bluish green with white borders with velvety to powdery textures depending on species. Some species produce radial patterns. Health Effects: Both Aspergillus and Penicillium are potential allergens. Several species of Aspergillus (A. flavus and A. parasiticus) produce aflatoxins or natually occurring mycotoxins that are toxic and carcinogenic. These are found in contaminated foodstuff and are hazardous to consumers. Penicillium has only one known species that is pathogenic to humans (P. marneffei) that causes lethal systemic infection (Penicilliosis) in immunocompromised individuals.

#### Smuts/Periconia/Myxomycetes

Smuts, Periconia, and Myxomycetes spores are grouped together due to their similar round, brown morphology. Smuts are outdoor parasitic plant pathogens. They rarely grow indoors but may grow on host plants if appropriate conditions are present. They are parasitic plant pathogens. They can be found on cereal crops, grasses, flowing plants, weed, and other fungi. They can cause allergies. Periconia are found in soils, dead herbaceous stems and leaf spots, and grasses. They have wind dispersed dry spores. Their spores are abundant in the air but it is not known if they are allergenic. Myxomycetes are found on decaying logs, stumps and dead leaves. They have wind-dispersed dry spores and wet motile (amoebic phase) spores. During favorable conditions they move about like amoebae. They form dry airborne spores when conditions are unfavorable. They are rarely found indoors. Health Effects: They may cause Type 1 allergies (hay fever, asthma). No human infections have been reported.

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AMA Analytical Services, Inc. Focused on Results www.amalab.com AIHA (#100470) NVLAP (#101143-0) NY E 4475 Forbes Blvd. • Lanham, MD 20706 (301) 459-2640 • (800) 346-0961 • Fax (301)		CHAIN	OF CI	U <b>ST(</b>	DDY		(Please Refer To Number For Inqu	This (Joz43	373
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