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February 22, 2020

Prince Georges County Environmental Safety Office 13306 Old Marlboro Pike Upper Marlboro, MD 20772

Attention: Mr. Alex Baylor

RE: Indoor Air Quality Screening Report

Global Project Number: 20-064 School: Riverdale Elementary School

Dear Mr. Baylor,

On December 09, 2020, Global Inc.'s (GLOBAL) team of Industrial Hygienists under the supervision of Certified Industrial Hygienist, Dr. Channa Bambaradeniya, conducted an Indoor Air Quality Screening at Riverdale Elementary School located at 5006 Riverdale Rd, Riverdale, MD 20737.

Methodology

The IAQ evaluation included a visual assessment, sampling for non-viable mold spores in air, and measurement of comfort parameters (temperature, humidity, carbon dioxide, and carbon monoxide) in randomly selected representative locations within the building. GLOBAL's inspector conducted a walkthrough with Prince Georges County Public School (PGCPS) personnel present. Rooms were selected in a random manner throughout the building so as to prevent sampling bias.

During the visual assessment of representative locations, and when noted, GLOBAL documented those areas with suspected mold growth, water intrusions, and wet conditions that have the potential to lead to mold growth. GLOBAL also noted any unusual odors. At least one microbial air sample was collected for every 10,000 Square Feet (SF) of space in the building and the analytical results for the interior spaces were compared to an outdoor (ambient) sample collected on the same day.

Microbial samples (including a field blank for quality control) were delivered under strict chain-of-custody procedures were to Hayes Microbial Consulting - an AIHA EMPAT-certified laboratory in Midlothian, Virginia for analysis by microscopy. The sample chain-of-custody and laboratory report is attached.



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Observations

The general observations in the six indoor locations inspected are summarized in Table 1 below:

Table 1: Observations

Location	Observations
Room 11	Warped ceiling tiles present
Room 15	Warped ceiling tiles present
Ramp Room 07	Warped ceiling tiles present
Room 05	Warped ceiling tiles present
Room 02	Warped ceiling tiles present
Music Room	Warped ceiling tiles present

Comfort Parameter Measurements and Mold-in-Air Sample Results

The comfort parameter measurements and status of fungal ecology is summarized in Table 2 and Table 3.

Temperature

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) have published recommendations for year-round acceptable temperatures in Standard 55-2016 (*Thermal Environmental Conditions for Human Occupancy*). The winter comfort range is 68 to 75°F and the summer comfort range is 73 to 79°F. It is important to note that ASHRAE standards are intended as a suggested guideline as opposed to a regulation. The indoor temperature readings from room 11 was slightly below than the ASHRAE Standard.

Relative Humidity (RH)

Relative humidity is a key factor for mold growth. Mold has the potential of growing on suitable surfaces with humidity levels above 60%. ASHRAE standard 62.1-2013 (*Ventilation for Acceptable Indoor Air Quality*) recommends a maximum indoor relative humidity of 65% to preclude the likelihood of condensation on cool surfaces encouraging mold growth. The indoor relative humidity readings in the multi-purpose room was above the ASHRAE recommended level of 65%.

Carbon Monoxide

Carbon monoxide (CO) is a colorless and odorless gas that is produced by the incomplete combustion of carbon-containing fuels. Oil, gasoline, diesel fuels, wood, coke, and coal are the major sources of CO. All registered CO concentrations were below the EPA National Ambient Air Quality Standard (NAAQS) of 9 ppm.



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Carbon Dioxide

Under conditions of maximum occupancy, ASHRAE Standard 62.1-2013, Appendix C, infers that the acceptable carbon dioxide upper limit is the prevailing outdoor carbon dioxide concentration plus 700 parts per million (ppm). On December 9, 2020, the outdoor (ambient) carbon dioxide concentration was approximately 418 ppm so indoor concentrations should not exceed approximately 1118 ppm (700 + 418). All indoor carbon dioxide measurements were within the ASHRAE standards.

Mold-in-Air Samples

There are no definitive regulations or standardized guidelines for addressing airborne mold in an indoor setting. If building systems (ventilation, envelope) are functioning properly, the indoor fungal ecology profile should be consistent with what is encountered outdoors and the spore concentrations should be below the ambient levels.

The analytical results of indoor air samples collected from Room 5 on December 9, 2020 indicated elevated presence of *Aspergillus/Penicillium*. The horizontal surfaces of Room 5 were thoroughly recleaned, and air scrubbers with HEPA filters were operated for 24-36 hours. Subsequently, Room 5 was reinspected on February 15, 2021, and the analytical results of air samples collected indicated normal fungal ecology. Laboratory analytical results are attached at the end of this report.

Table 2: Air Quality Results (Inspected on December 9, 2020)

Sample Location	Temp ⁰ F	RH%	CO ppm	CO2 ppm	Normal Fungal
Standards	ASHRAE 68 to 75°F	ASHRAE <65%	NAAQS <9	ASHRAE 1118	Ecology?
Ambient	45.5	25	0	418	-
Room 11	65.7	26	0	415	Yes
Room 15	73.1	27	0	418	Yes
Ramp Room 07	70.0	24	0	433	Yes
Room 05	71.4	26	0	407	No
Room 02	71.5	23	0	419	Yes
Music Room	69.7	50	0	452	Yes

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Table 2: Air Quality Results (Inspected on February 15, 2021)

Sample Location	Temp ⁰ F	RH%	CO ppm	CO2 ppm	Normal Fungal
Standards	ASHRAE 68 to 75°F	ASHRAE <65%	NAAQS <9	ASHRAE 1149	Ecology?
Ambient	62	24	0	449	-
Room 5	59	38	0	448	Yes

Conclusions and Recommendations

Among the comfort parameters measured, the indoor temperature readings were lower than the ASHRAE recommended range for winter. The indoor temperature should be maintained at the ASHRAE recommended range for general comfort.

The indoor mold samples collected from Room 5 indicated an elevated presence of *Cladosporium* during the screening performed on December 09, 2020, while the other mold sample was found to have a normal fungal ecology for an indoor environment. Room 5 was thoroughly recleaned and subsequently reinspected on February 15, 2021. The reinspection air sample analytical results

It has been our pleasure to conduct these IAQ Screening services for the Prince Georges County Public School system. If you have any questions, please feel free to contact us.

Regards,

Channa Bambaradeniya, Ph.D., CIH, CSP, CHMM

Certified Industrial Hygienist

Global, Inc.

Mobile: 443-691-0455



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ATTACHMENT I

Air Sample Analytical Results and Chain-Of-Custody Form





Analysis Report prepared for

Global, Inc.

1818 New York Ave. Suite 217 Washington, DC, 20002

Phone: (443) 691-0455

BB203

PGCPS Indoor Air Quality Inspections Riverdale Elementary School

Collected: **December 9, 2020**Received: **December 10, 2020**Reported: **December 10, 2020**

We would like to thank you for trusting Hayes Microbial for your analytical needs! We received 7 samples by FedEx in good condition for this project on December 10th, 2020.

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. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC..

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.

Steve Hayes, BSMT(ASCP) Laboratory Director

Hayes Microbial Consulting, LLC.



EPA Laboratory ID: VA01419



plan N. Hayes

Lab ID: #188863



DPH License: #PH-0198

1818 New York Ave. Suite 217 Washington, DC, 20002 (443) 691-0455

BB203

PGCPS Indoor Air Quality Inspections Riverdale Elementary School

#20046092

Spore Trap SOP - HMC#101

Sample Number	1 RES-1209-01			RES-1209-01 2 RES-1209-02				RES-12	209-03	4 RES-1209-04			
Sample Name	Ambient				Room 11			Room 15		Ramp Room 07			
Sample Volume		75.00 liter			75.00 liter			75.00 liter		75.00 liter			
Reporting Limit		13 spores/m ³	3		13 spores/m ³			13 spores/m ³			13 spores/m ³	3	
Background		2			2			2			2		
Fragments		ND			ND			ND			ND		
<u> </u>													
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	
Alternaria													
Ascospores	2	27	22.2%				2	27	28.6%				
Aspergillus Penicillium	2	27	22.2%										
Basidiospores	1	13	11.1%							1	13	25.0%	
Bipolaris Drechslera													
Chaetomium													
Cladosporium	3	40	33.3%	2	27	100.0%	4	53	57.1%	3	40	75.0%	
Curvularia													
Epicoccum													
Fusarium													
Memnoniella													
Myxomycetes	1	13	11.1%										
Pithomyces													
Stachybotrys													
Stemphylium													
Torula													
Ulocladium													
Spegazzinia							1	13	14.3%				
Total	9	120	100%	2	27	100%	7	93	100%	4	53	100%	

Water Damage Indicator

Common Allergen

Slightly Higher than Baseline

Date:

12 - 10 - 2020

Significantly Higher than Baseline

Ratio Abnormality

Collected: Dec 9, 2020

Shareef Abdelgadir, MS

Project Analyst:

Received: Dec 10, 2020

Reviewed By:

Steve Hayes, BSMT

Reported: Dec 10, 2020

Date:

12 - 10 - 2020

1818 New York Ave. Suite 217 Washington, DC, 20002 (443) 691-0455

BB203

PGCPS Indoor Air Quality Inspections Riverdale Elementary School

#20046092

Spore Trap SOP - HMC#101

RES-1209-05 7 RES-1209-07 Sample Number 5 6 RES-1209-06 Sample Name Room 02 **Music Room** Room 05 Sample Volume 75.00 liter 75.00 liter 75.00 liter Reporting Limit 13 spores/m3 13 spores/m³ 13 spores/m³ 2 2 Background 13/m³ ND ND Fragments Count / m3 **Raw Count** Count / m³ % of Total % of Total Count / m³ % of Total Organism **Raw Count Raw Count** Alternaria 13 1.9% Ascospores Aspergillus|Penicillium 46 613 86.8% **Basidiospores** Bipolaris|Drechslera Chaetomium 6 2 27 Cladosporium 80 11.3% 100.0% 13 25.0% Curvularia Epicoccum Fusarium Memnoniella 3 75.0% 40 Myxomycetes Pithomyces Stachybotrys Stemphylium Torula Ulocladium Spegazzinia Total 53 706 100% 2 27 100% 53 100%

Water Damage Indicator

Shareef Abdelgadir, MS <

Common Allergen

Slightly Higher than Baseline

Date:

12 - 10 - 2020

Significantly Higher than Baseline

Ratio Abnormality

Collected: Dec 9, 2020

Project Analyst:

Received: Dec 10, 2020

Reviewed By:

Reported: Dec 10, 2020

Steve Hayes, BSMT Stephen N. Abylis

Date:

12 - 10 - 2020

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

(804) 562-3435

contact@hayesmicrobial.com

Page: **3** of **6**

1818 New York Ave. Suite 217 Washington, DC, 20002 (443) 691-0455

BB203 PGCPS Indoor Air Quality Inspections Riverdale Elementary School

#20046092

Spore Trap Information

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:
	 NBD: No background detected due to possible pump or cassette malfunction. Recollect sample. (Field Blanks will display NBD) 1: <5% of field occluded. No spores will be uncountable. 2: 5-25% of field occluded. 3: 25-75% of field occluded. 4: 75-90% of field occluded. 5: >90% of field occluded. Suggested recollection of sample.
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 outside count and may or may not indicate a source of contamination.
Significantly Higher than Baseline	Red: The spore count is significantly higher than the baseline count and probably indicates a source of contamination.
Ratio Abnormality	Violet: The types of spores found indoors should be similar to the ones that were identified in the baseline sample. Significant increases (more than 25%) in 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 indoo 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.



1818 New York Ave. Suite 217 Washington, DC, 20002 (443) 691-0455

BB203 PGCPS Indoor Air Quality Inspections Riverdale Elementary School

#20046092

Organism Descriptions

Habitat: Effects: Habitat: Effects:	Commonly found outdoors in soil and decaying plants. Indoors, it is commonly found on window sills and other horizontal surfaces. A common allergen and has been associated with hypersensitivity pneumonitis. Alternaria is capable of producing toxic metabolites which may be associated with disease in humans or animals. Occasionally an agent of onychomycosis, ulcerated cutaneous infection and chronic sinusitis, principally in the immunocompromised patient. 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.
Habitat:	may be associated with disease in humans or animals. Occasionally an agent of onychomycosis, ulcerated cutaneous infection and chronic sinusitis, principally in the immunocompromised patient. A large group consisting of more than 3000 species of fungi. Common plant pathogens and outdoor numbers become very high following
Effects:	
	Health affects are poorly studied, but many are likely to be allergenic.
Habitat:	The most common fungi isolated from the environment. Very common in soil and on decaying plant material. Are able to grow well indoors on a wide variety of substrates.
Effects:	This group contains common allergens and many can cause hypersensitivity pneumonitis. They may cause extrinsic asthma, and many are opportunistic pathogens. Many species produce mycotoxins which may be associated with disease in humans and other animals. Toxin production is dependent on the species, the food source, competition with other organisms, and other environmental conditions.
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.
Habitat:	One of the most common genera worldwide. Found in soil and plant debris and on the leaf surfaces of living plants. The outdoor numbers are lower in the winter and often relatively high in the summer, especially in high humidity. The outdoor numbers often spike in the late afternoon and evening. Indoors, it can be found growing on textiles, wood, sheetrock, moist window sills and in HVAC supply ducts.
Effects:	A common allergen, producing more than 10 allergenic antigens and a common cause of hypersensitivity pneumonitis.
Habitat:	They exist in soil and plant debris, and are plant pathogens.
Effects:	They are allergenic and a common cause of allergic fungal sinusitis. An occasional cause of human infection, including keratitis, sinusitis, onychomycosis, mycetoma, pneumonia, endocarditis and desseminated infection, primarily in the immunocompromised.
	Effects: Habitat: Effects: Habitat: Habitat:



1818 New York Ave. Suite 217 Washington, DC, 20002 (443) 691-0455

BB203 PGCPS Indoor Air Quality Inspections Riverdale Elementary School

#20046092

Organism Descriptions

Found on decaying plant material and as a plant pathogen. Habitat: Myxomycetes

> Some allergenic properties reported, but generally pose no health concerns to humans. Effects:

Habitat: Found in soil and occasionally on plants. Spegazzinia

> No known health effects. Allergenic properties are poorly studied. Effects:





Job Number: BB203

Collector: Kenna Leonzo

Company:

SHIP: FEDEX - PAK 50 DATE: 12-10-2020

8160 4410 5380

MOLD

Washington

Job Name: pGCPS Indoor Air Quality

Inspections - Riverdale Elementary

School

Mobile: 2404358771 Email: kennal@globalincusa.net

D. L. O. H L				School					Notes To						
Date Collected: 12/09/20				303					Note: Please email the report to channab@globalincus						
Analysis Type				Analysis Description					Turnaround			Accepted Media Types			
Spore Trap	Spore Trap S Identification & Enumeration of Fungal Spores							24 Hour			Air Cassettes, Impact Slides				
	S	+ Spore	Trap Analy	sis with Da	ander, Fibe	r, and Pollen	counts		24	Hour	Ai	r Cassettes, Impact Slides			
Direct ID	D	ID & S	Semi-Quanta	ative Enum	eration of	spores and m	ycelium		24	Hour	Bi	o-Tape, Tape, Swab, Bulk, Agar Plate			
	D	+ Direct	t Analysis w	ith Fully Q	uantitative	spore count			24	Hour	Bi	o-Tape, Tape, Swab, Bulk, Agar Plate			
Culture	С	1 Identi	ification & E	numeratio	n of Mold o	only			7 D	ay	Aiı	r Plate, Agar Plate, Swab, Bulk			
	C	2 Identi	ification & E	numeratio	n of Bacter	ia only			4 D	ay	Aiı	r Plate, Agar Plate, Swab, Bulk			
	С	3 Identi	ification & E	numeratio	n of Mold a	and Bacteria			7 D	ay	Aiı	r Plate, Agar Plate, Swab, Bulk			
	С	5 Colifo	orm Screen i	for Sewage	Bacteria				2 D	ay	Ag	gar Plate, Swab, Bulk			
Particle	T	PA Total	Particulate	Analysis, II	D & Count	(Does Not Inc	clude Mold)		24	Hour	Aiı	r Cassettes, Impact Slides, Bio-Tape			
#	Number				Sample			Analysi	s	Volume		Notes			
1	RES-1209	-01 An	nbient			···		S		75 L					
2	RES-1209	1-02 Ro	oom 11				S		75 L						
3	RES-1209	-03 Ro	oom 15					S		75 L					
4	RES-1209	-04 Ra	amp Room	1 07				S		75 L					
5	RES-1209	-05 Ro	om 05					S		75 L					
6	RES-1209	-06 Ro	om 02					S		75 L					
7	RES-1209	-07 Mu	usic Room	1				S		75 L					
8															
9															
10															
11															
12															
13															
14								<u> </u>			_				
15															
16															

Hayes Microbial Consulting, LLC.

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

(804) 562-3435

contact@hayesmicrobial.com

Form #20, Rev.3, March 23, 2019





Analysis Report prepared for

Global, Inc.

1818 New York Ave. Suite 217 Washington, DC, 20002

Phone: (443) 691-0455

20-064 IAQ - Riverdale ES 5006 Riverdale Rd Riverdale, MD 20737

Collected: February 15, 2021 Received: February 16, 2021 Reported: February 16, 2021 We would like to thank you for trusting Hayes Microbial for your analytical needs!
We received 2 samples by FedEx in good condition for this project on February 16th, 2021.

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. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC..

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.

Steve Hayes, BSMT(ASCP) Laboratory Director

Hayes Microbial Consulting, LLC.



EPA Laboratory ID: VA01419



John N. Hayes

Lab ID: #188863



DPH License: #PH-0198

Channa Bambaradeniya Global, Inc.

1818 New York Ave. Suite 217 Washington, DC, 20002 (443) 691-0455

20-064

IAQ - Riverdale ES 5006 Riverdale Rd Riverdale, MD 20737 #21005153

Spore Trap SOP - HMC#101

Sample Number	1	0	1	2	0	2			
Sample Name		Ambient		Room #5					
Sample Volume		75.00 liter		75.00 liter					
Reporting Limit		13 spores/m ³			13 spores/m ³				
Background		2			1				
Fragments		ND			ND				
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total			
Alternaria									
Ascospores	3	40	33.3%	1	13	100.0%			
Aspergillus Penicillium	5	67	55.6%						
Basidiospores	1	13	11.1%						
Bipolaris Drechslera									
Chaetomium									
Cladosporium									
Curvularia									
Epicoccum									
Fusarium									
Memnoniella									
Myxomycetes									
Pithomyces									
Stachybotrys									
Stemphylium									
Torula									
Ulocladium									
Total	9	120	100%	1	13	100%			
Water David and Frank		<u> </u>	. All				 His book on Booking	Datie Alemanna d	

Water Damage Indicator

Common Allergen

Significantly Higher than Baseline

Ratio Abnormality

Collected: Feb 15, 2021

Project Analyst:

Ramesh Poluri, PhD

Received: Feb 16, 2021

Slightly Higher than Baseline

Date:

Reported: Feb 16, 2021

02 - 16 - 2021

Reviewed By:

Steve Hayes, BSMT

Date:

02 - 16 - 2021

Channa Bambaradeniya Global, Inc.

1818 New York Ave. Suite 217 Washington, DC, 20002 (443) 691-0455

20-064 IAQ - Riverdale ES 5006 Riverdale Rd Riverdale, MD 20737 #21005153

Spore Trap Information

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:
	 NBD: No background detected due to possible pump or cassette malfunction. Recollect sample. (Field Blanks will display NBD) 1: <5% of field occluded. No spores will be uncountable. 2: 5-25% of field occluded. 3: 25-75% of field occluded. 4: 75-90% of field occluded. 5: >90% of field occluded. Suggested recollection of sample.
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 comparisor 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 outside count and may or may not indicate a source of contamination. Red: The spore count is significantly higher than the baseline count and probably indicates a source of contamination.
Significantly Higher than Baseline	
Ratio Abnormality	Violet: The types of spores found indoors should be similar to the ones that were identified in the baseline sample. Significant increases (more than 25%) in 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 indocenvironment 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 damagindicators.



Channa Bambaradeniya Global, Inc.

1818 New York Ave. Suite 217 Washington, DC, 20002 (443) 691-0455

20-064

IAQ - Riverdale ES 5006 Riverdale Rd Riverdale, MD 20737 #21005153

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.

Health affects are poorly studied, but many are likely to be allergenic. Effects:

Aspergillus | Penicillium

Habitat: The most common fungi isolated from the environment. Very common in soil and on decaying plant material. Are able to grow well indoors on

a wide variety of substrates.

Effects: This group contains common allergens and many can cause hypersensitivity pneumonitis. They may cause extrinsic asthma, and many are

opportunistic pathogens. Many species produce mycotoxins which may be associated with disease in humans and other animals. Toxin

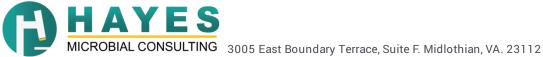
production is dependent on the species, the food source, competition with other organisms, and other environmental conditions.

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.

Common allergens and are also associated with hypersensitivity pneumonitis. Effects:





Collector: Shane Prabuddha

Date Collected: 02/15/2021

Job Number: 20-064

Global Inc Company:

Address:

1818 New York Ave NE Suite 217

5006 Riverdale Rd, Riverdale, MD 20737

Washington DC 20002

Job Name: IAQ - Riverdale ES

SHIP: FEDEX - BOX 50 DATE: 02-16-2021

MOLD

8160 4411 5635

Mobile: 443-691-0455 Email: Channab@globalincusa.net

Note:

Analysis Type				Tı	urnaround	Accepted Media Types							
Spor	e Trap	S	Identification & Enumeration of Fungal Spores				24 F	Hour XX	Air	r Cassette	s, Impact Slide	es	
		S+	Spore Trap Analysis with	Dander, Fiber, and Pollen co	ounts		24 F	Hour	Air Cassettes, Impact Slides				
Direc	et ID	D	ID & Semi-Quantative Enu	meration of spores and my	celium		24 F	Hour	Bio	o-Tape, T aj	oe, Swab, Bulk	, Agar Plate	
		D+	Direct Analysis with Fully	Quantitative spore count			24 F	Hour	Bio	o-Tape, T ap	oe, Swab, Bulk	, Agar Plate	
Cultu	ıre	C1	Identification & Enumerat	ion of Mold only			7 Da	ay	Air	Plate, Aga	ar Plate, Swab	, Bulk	eren en e
		C2	Identification & Enumerat	ion of Bacteria only	***************************************	***************************************	4 Da	ay	Air	Plate, Aga	ar Plate, Swab	, Bulk	
	***************************************	C3	Identification & Enumerat	ion of Mold and Bacteria	***************************************	***************************************	7 Da	ay	Air	Plate, Aga	ar Plate, Swab,	, Bulk	
		C5	Coliform Screen for Sewa	ge Bacteria	***************************************		2 Da	ay	Ag	ar Plate, S	wab, Bulk		
Parti	cle	TPA	Total Particulate Analysis	ID & Count (Does Not Incl	ude Mold)		24 F	Hour	Air	Cassettes	, Impact Slide	s, Bio-Tape	
#	Numb	oer		Sample		Analysis		Volume				Notes	
1	01			Ambient		S		75L		T: 62	RH: 24	CO2: 449	CO: (
2	02			Room #5		S		75L		159		Ce2:448	Co: 0
3					***************************************			······································		***************************************	***************************************		
4								***************************************			***************************************		***************************************
5								***************************************		***************************************			
6													
7	•					•		***************************************		***************************************		***************************************	
8									\neg				***************************************
9										***************************************	***************************************		
10					***************************************			***************************************	T	***************************************	***************************************	***************************************	
11													
12	***************************************									***************************************	***************************************		***************************************
13					***************************************	······································							***************************************
14									T				
15													
16						***************************************		er konstruer en	T				***************************************
Rele	ased by: Sha	ne Prab	ouddha	Date: 2/15/2021	Received	d B y : (P	>	uunaankan			Date 16/	γ_1