



Environmental Consultants and Engineers

1818 New York Avenue Suite 217
Washington, DC 20002

www.globalincusa.net

March 8, 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: Patuxent Elementary School

Dear Mr. Baylor,

On December 3, 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 Patuxent Elementary School located at 4410 Bishopmill Drive, Upper Marlboro, MD.

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
Studio Room	No issues
Room 14	No issues
Room 8	No issues
Room 3	No issues
Cafeteria	No issues
Room 28	Decolored ceiling tiles

Comfort Parameter Measurements and Mold-in-Air Sample Results

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

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. All the indoor temperature readings were higher 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. All the indoor relative humidity readings were below 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 3, 2020, the outdoor (ambient) carbon dioxide concentration was approximately 449 ppm so indoor concentrations should not exceed approximately 1149 ppm (700 + 449). 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. Laboratory analytical results are attached at the end of this report.

The analytical results of indoor air samples collected from the Studio Room and Room 14 indicate elevated presence of *Aspergillus/Penicillium*. The horizontal surfaces the in Studio Room and Room 14 were thoroughly re-cleaned, and air scrubbers with HEPA filters were operated for 24-36 hours. Subsequently, Room 242 was reinspected on March 5, 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 Dec 3, 2020)

Sample Location	Temp °F	RH%	CO ppm	CO2 ppm	Normal Fungal Ecology?
Standards	ASHRAE 68 to 75°F	ASHRAE <65%	NAAQS <9	ASHRAE 1149	
Ambient	42.5	43.7	0	449	-
Studio Room	82.1	16.3	0	472	No
Room 14	83.1	11.5	0	433	No
Room 8	82.6	12.8	0	457	Yes
Room 3	84.5	12.1	0	514	Yes
Cafeteria	79.4	14.1	0	449	Yes
Room 28	81.5	13.0	0	439	Yes



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Table 2: Air Quality Results (Inspected on March 5, 2020)

Sample Location	Temp °F	RH%	CO ppm	CO2 ppm	Normal Fungal Ecology?
Standards	ASHRAE 68 to 75°F	ASHRAE <65%	NAAQS <9	ASHRAE 1120	
Ambient	65.0	19	0	420	-
Studio Room	62.0	19	0	555	Yes
Room 14	71.0	19	0	419	Yes

Conclusions and Recommendations

Among the comfort parameters measured, the indoor temperature readings were higher than the ASHRAE recommended range for winter. The indoor temperature should be regulated at the ASHRAE recommended range (68 to 75°F) for general comfort in the winter.

The indoor mold samples collected from the Studio Room and Room 14 indicated an elevated presence of *Aspergillus/Penicillium* during the screening performed on December 3, 2020, while the other mold sample was found to have a normal fungal ecology for an indoor environment. The Studio Room and Room 14 were thoroughly recleaned and resampled on March 5, 2021, and the analytical results indicated normal fungal ecology.

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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Washington, DC 20002

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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
Indoor Air Quality
Patuxent Elementary School

Collected: December 3, 2020
Received: December 4, 2020
Reported: December 4, 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 4th, 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



Lab ID: #188863



DPH License: #PH-0198

Sample Number	1	PES-1203-01			2	PES-1203-02			3	PES-1203-03			4	PES-1203-04		
Sample Name	Ambient			Studio Room			Room 14			Room 8						
Sample Volume	75.00 liter			75.00 liter			75.00 liter			75.00 liter						
Reporting Limit	13 spores/m ³			13 spores/m ³			13 spores/m ³			13 spores/m ³						
Background	2			2			2			2						
Fragments	ND			ND			ND			ND						
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	200	2667	78.4%	4	53	2.4%	2	27	<1%	6	80	40.0%				
Aspergillus Penicillium	3	40	1.2%	160	2133	96.4%	800	10667	99.8%	7	93	46.7%				
Basidiospores	48	640	18.8%	1	13	<1%				2	27	13.3%				
Bipolaris Drechslera																
Chaetomium																
Cladosporium	4	53	1.6%													
Curvularia																
Epicoccum																
Fusarium																
Memnoniella																
Myxomycetes				1	13	<1%										
Pithomyces																
Stachybotrys																
Stemphylium																
Torula																
Ulocladium																
Total	255	3400	100%	166	2212	100%	802	10694	100%	15	200	100%				

Water Damage Indicator Common Allergen Slightly Higher than Baseline Significantly Higher than Baseline Ratio Abnormality



Collected: Dec 3, 2020

Received: Dec 4, 2020

Reported: Dec 4, 2020

Project Analyst:
 Ramesh Poluri, PhD *P. Ramesh*

Date:
12 - 04 - 2020

Reviewed By:
 Steve Hayes, BSMT *Stephen N. Hayes*

Date:
12 - 04 - 2020

Sample Number	5	PES-1203-05			6	PES-1203-06			7	PES-1203-07					
Sample Name	Room 3			Cafeteria			Room 28								
Sample Volume	75.00 liter			75.00 liter			75.00 liter								
Reporting Limit	13 spores/m ³			13 spores/m ³			13 spores/m ³								
Background	2			2			2								
Fragments	ND			ND			ND								
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total						
Alternaria															
Ascospores	3	40	33.3%	1	13	16.7%	6	80	60.0%						
Aspergillus Penicillium	6	80	66.7%	5	67	83.3%	3	40	30.0%						
Basidiospores							1	13	10.0%						
Bipolaris Drechslera															
Chaetomium															
Cladosporium															
Curvularia															
Epicoccum															
Fusarium															
Memnoniella															
Myxomycetes															
Pithomyces															
Stachybotrys															
Stemphylium															
Torula															
Ulocladium															
Total	9	120	100%	6	80	100%	10	133	100%						

Water Damage Indicator	Common Allergen	Slightly Higher than Baseline	Significantly Higher than Baseline	Ratio Abnormality
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Collected: Dec 3, 2020

Received: Dec 4, 2020

Reported: Dec 4, 2020

Project Analyst:
Ramesh Poluri, PhD *P. Ramesh*

Date:
12 - 04 - 2020

Reviewed By:
Steve Hayes, BSMT *Stephen N. Hayes*

Date:
12 - 04 - 2020

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	<p>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 <i>Aspergillus</i> and <i>Penicillium</i> may be obscured. The background is rated on a scale of 1 to 5 and each level is determined as follows:</p> <p>NBD: No background detected due to possible pump or cassette malfunction. Recollect sample. (Field Blanks will display NBD)</p> <p>1 : <5% of field occluded. No spores will be uncountable.</p> <p>2 : 5-25% of field occluded.</p> <p>3 : 25-75% of field occluded.</p> <p>4 : 75-90% of field occluded.</p> <p>5 : >90% of field occluded. Suggested recollection of sample.</p>										
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.										
<table border="1"> <tr> <td style="background-color: #ADD8E6;">Water Damage Indicator</td> <td>Blue: These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem.</td> </tr> <tr> <td style="background-color: #90EE90;">Common Allergen</td> <td>Green: Although all molds are potential allergens, these are the most common allergens that may be found indoors.</td> </tr> <tr> <td style="background-color: #FFDAB9;">Slightly Higher than Baseline</td> <td>Orange: The spore count is slightly higher than the outside count and may or may not indicate a source of contamination.</td> </tr> <tr> <td style="background-color: #FFB6C1;">Significantly Higher than Baseline</td> <td>Red: The spore count is significantly higher than the baseline count and probably indicates a source of contamination.</td> </tr> <tr> <td style="background-color: #DDA0DD;">Ratio Abnormality</td> <td>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 indoor environment than it was outdoors.</td> </tr> </table>	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 indoor environment than it was outdoors.	
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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.										

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.

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

Cladosporium	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.

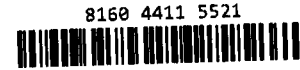
Myxomycetes	Habitat: Found on decaying plant material and as a plant pathogen.
	Effects: Some allergenic properties reported, but generally pose no health concerns to humans.



Company: Global, Inc
 Address: 1818 New York Avenue, -
Suite 217 Washington, DC 20002

N

SHIP: FEDEX - PAK 50
 DATE: 12-04-2020



Job Number: BB203	Job Name: Indoor Air Quality Patuxent Elementary School	Mobile: 443-691-0455	Email: channab@globalincusa.net
Collector: Kenna Leonzo		Note:	
Date Collected: 12/03/2020			

Analysis Type	Analysis Description	Turnaround	Accepted Media Types	
Spore Trap	S	Identification & Enumeration of Fungal Spores	24 Hour	Air Cassettes, Impact Slides
	S+	Spore Trap Analysis with Dander, Fiber, and Pollen counts	24 Hour	Air Cassettes, Impact Slides
Direct ID	D	ID & Semi-Quantative Enumeration of spores and mycelium	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	7 Day	Air Plate, Agar Plate, Swab, Bulk
	C2	Identification & Enumeration of Bacteria only	4 Day	Air Plate, 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	2 Day	Agar Plate, Swab, Bulk
Particle	TPA	Total Particulate Analysis, ID & Count (Does Not Include Mold)	24 Hour	Air Cassettes, Impact Slides, Bio-Tape

#	Number	Sample	Analysis	Volume	Notes
1	PES-1203-01	Ambient	S	75 L	
2	PES-1203-02	Studio Room	↓	↓	
3	PES-1203-03	Room 14			
4	PES-1203-04	Room 8			
5	PES-1203-05	Room 3			
6	PES-1203-06	Cafeteria			
7	PES-1203-07	Room 28			
8					
9					
10					
11					
12					
13					
14					
15					
16					

Released by: <u>Kenna Leonzo</u>	Date: <u>12/03/20</u>	Received By: <u>[Signature]</u>	Date: <u>12-4-20</u>
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Analysis Report prepared for

Global, Inc.

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

Phone: (443) 691-0455

20-064
IAQ Reinspection
Patuxent ES

Collected: **March 5, 2021**
Received: **March 8, 2021**
Reported: **March 8, 2021**

We would like to thank you for trusting Hayes Microbial for your analytical needs!
We received 4 samples by FedEx in good condition for this project on March 8th, 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..

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



EPA Laboratory ID: VA01419



Lab ID: #188863



DPH License: #PH-0198

Sample Number	1	01		2	02		3	03		4	04	
Sample Name	Ambient			Studio Room			Room 14			Field Blank		
Sample Volume	75.00 liter			75.00 liter			75.00 liter			0.00 liter		
Reporting Limit	13 spores/m ³			13 spores/m ³			13 spores/m ³			1 spore/m ³		
Background	2			2			2			NBD		
Fragments	ND			ND			ND			ND		
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	3	40	75.0%	1	13	50.0%	1	13	16.7%			
Aspergillus Penicillium							5	67	83.3%			
Basidiospores				1	13	50.0%						
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Chaetomium												
Cladosporium	1	13	25.0%									
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	4	53	100%	2	26	100%	6	80	100%	ND	ND	

Water Damage Indicator Common Allergen Slightly Higher than Baseline Significantly Higher than Baseline Ratio Abnormality



Collected: **Mar 5, 2021**

Received: **Mar 8, 2021**

Reported: **Mar 8, 2021**

Project Analyst:
Ramesh Poluri, PhD *P. Ramesh*

Date:
03 - 08 - 2021

Reviewed By:
Steve Hayes, BSMT *Stephen N. Hayes*

Date:
03 - 08 - 2021

Spore Trap Information

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

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

Cladosporium	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.



Company: Global, Inc.
 Address: 1818 New York Avenue, Suite 217
Washington, DC 20002.

SHIP: FEDEX - ENV 50
 DATE: 03-08-2021
 8160 4410 5689

MOLD

 21007755

Job Number: 20-064
 Collector: Shane Prabuddha
 Date Collected: 03/05/21
 Job Name: IAQ Reinspection
Patuxent ES

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

Analysis Type	Analysis Description	Turnaround	Accepted Media Types
Spore Trap	S	24 Hour	Air Cassettes, Impact Slides
	S+	24 Hour	Air Cassettes, Impact Slides
Direct ID	D	24 Hour	Bio-Tape, Tape, Swab, Bulk, Agar Plate
	D+	24 Hour	Bio-Tape, Tape, Swab, Bulk, Agar Plate
Culture	C1	7 Day	Air Plate, Agar Plate, Swab, Bulk
	C2	4 Day	Air Plate, Agar Plate, Swab, Bulk
	C3	7 Day	Air Plate, Agar Plate, Swab, Bulk
	C5	2 Day	Agar Plate, Swab, Bulk
Particle	TPA	24 Hour	Air Cassettes, Impact Slides, Bio-Tape

#	Number	Sample	Analysis	Volume	Notes
1	01	Ambient	S	75L	T:65 RH:19 CO2:420 CO:0
2	02	Studio Room	S	75L	T:62 RH:19 CO2:555 CO:0
3	03	Room 14	S	75L	T:71 RH:19 CO2:419 CO:0
4	04	Field blank	S		
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

Released by: Shane Prabuddha
 Date: 03/05/21
 Received By:
 Date: 3-8-21