



Environmental Consultants and Engineers

1818 New York Avenue Suite 217  
Washington, DC 20002

[www.globalincusa.net](http://www.globalincusa.net)

February 8, 2021

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: Northview Elementary School

Dear Mr. Baylor,

On February 03, 2021, 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 Northview Elementary School located at 3700 Northview Dr, Bowie, MD 20716.

## 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.



Environmental Consultants and Engineers

1818 New York Avenue Suite 217  
Washington, DC 20002

[www.globalincusa.net](http://www.globalincusa.net)

## Observations

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

**Table 1: Observations**

| Location | Observations                 |
|----------|------------------------------|
| Room 253 | No issues                    |
| Room 242 | No issues                    |
| Room 203 | No issues                    |
| Room 213 | No issues                    |
| Room 210 | No issues                    |
| Room 300 | Water spots on ceiling tiles |
| Room 336 | No issues                    |

## 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. The indoor temperature readings of all locations were within 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.



Environmental Consultants and Engineers

1818 New York Avenue Suite 217  
Washington, DC 20002

[www.globalincusa.net](http://www.globalincusa.net)

### *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 February 3, 2021, the outdoor (ambient) carbon dioxide concentration was approximately 417 ppm so indoor concentrations should not exceed approximately 1117 ppm (700 + 417). 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 total mold spore concentrations in all indoor locations sampled were below the ambient level. Laboratory analytical results are attached at the end of this report.

**Table 2: Air Quality Results**

| Sample Location | Temp<br>°F           | RH%            | CO<br>ppm   | CO2<br>ppm     | Normal<br>Fungal<br>Ecology? |
|-----------------|----------------------|----------------|-------------|----------------|------------------------------|
| Standards       | ASHRAE<br>68 to 75°F | ASHRAE<br><65% | NAAQS<br><9 | ASHRAE<br>1117 |                              |
| Ambient         | 37.0                 | 43.9           | 0           | 417            | N/A                          |
| Room 253        | 67.4                 | 42.0           | 0           | 418            | Yes                          |
| Room 242        | 69.6                 | 51.0           | 0           | 409            | Yes                          |
| Room 203        | 69.5                 | 34.6           | 0           | 421            | Yes                          |
| Room 213        | 70.1                 | 31.2           | 0           | 413            | Yes                          |
| Room 210        | 72.4                 | 47.7           | 0           | 418            | Yes                          |
| Room 300        | 72.6                 | 51.1           | 0           | 432            | Yes                          |
| Room 336        | 73.3                 | 46.2           | 0           | 433            | Yes                          |



Environmental Consultants and Engineers

1818 New York Avenue Suite 217  
Washington, DC 20002

[www.globalincusa.net](http://www.globalincusa.net)

## Conclusions and Recommendations

The comfort parameters measured were within the applicable Standards for indoor comfort. No indoor air quality issues related to mold were found during the screening performed on February 3, 2020, and all mold samples were found to have a normal ecology for an indoor environment.

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,

A handwritten signature in blue ink, appearing to read "Channa Bambaradeniya".

Channa Bambaradeniya, Ph.D., CIH, CSP, CHMM  
Certified Industrial Hygienist  
Global, Inc.  
Mobile: 443-691-0455



Environmental Consultants and Engineers

1818 New York Avenue Suite 217  
Washington, DC 20002

[www.globalincusa.net](http://www.globalincusa.net)

## 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 Assessment  
PGCPS - Northview ES

Collected: **February 3, 2021**  
Received: **February 4, 2021**  
Reported: **February 4, 2021**

We would like to thank you for trusting Hayes Microbial for your analytical needs!  
We received 9 samples by FedEx in good condition for this project on February 4th, 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



Lab ID: #188863



DPH License: #PH-0198

| Sample Number           | 1                        | NES-0203-01            |             |                          | 2                      | NES-0203-02 |                          |                        | 3           | NES-0203-03              |                        |             | 4 | NES-0203-04 |  |  |
|-------------------------|--------------------------|------------------------|-------------|--------------------------|------------------------|-------------|--------------------------|------------------------|-------------|--------------------------|------------------------|-------------|---|-------------|--|--|
| Sample Name             | <b>Ambient</b>           |                        |             | <b>Room 253</b>          |                        |             | <b>Room 242</b>          |                        |             | <b>Room 203</b>          |                        |             |   |             |  |  |
| Sample Volume           | 75.00 liter              |                        |             | 75.00 liter              |                        |             | 75.00 liter              |                        |             | 75.00 liter              |                        |             |   |             |  |  |
| Reporting Limit         | 13 spores/m <sup>3</sup> |                        |             | 13 spores/m <sup>3</sup> |                        |             | 13 spores/m <sup>3</sup> |                        |             | 13 spores/m <sup>3</sup> |                        |             |   |             |  |  |
| Background              | 2                        |                        |             | 2                        |                        |             | 1                        |                        |             | 1                        |                        |             |   |             |  |  |
| Fragments               | ND                       |                        |             | ND                       |                        |             | ND                       |                        |             | ND                       |                        |             |   |             |  |  |
| Organism                | Raw Count                | Count / m <sup>3</sup> | % of Total  | Raw Count                | Count / m <sup>3</sup> | % of Total  | Raw Count                | Count / m <sup>3</sup> | % of Total  | Raw Count                | Count / m <sup>3</sup> | % of Total  |   |             |  |  |
| Alternaria              |                          |                        |             |                          |                        |             |                          |                        |             |                          |                        |             |   |             |  |  |
| Ascospores              | 2                        | 27                     | 28.6%       | 2                        | 27                     | 66.7%       | 1                        | 13                     | 100.0%      |                          |                        |             |   |             |  |  |
| Aspergillus Penicillium |                          |                        |             |                          |                        |             |                          |                        |             |                          |                        |             |   |             |  |  |
| Basidiospores           | 1                        | 13                     | 14.3%       |                          |                        |             |                          |                        |             |                          |                        |             |   |             |  |  |
| Bipolaris Drechslera    |                          |                        |             |                          |                        |             |                          |                        |             |                          |                        |             |   |             |  |  |
| Chaetomium              |                          |                        |             |                          |                        |             |                          |                        |             |                          |                        |             |   |             |  |  |
| Cladosporium            | 4                        | 53                     | 57.1%       |                          |                        |             |                          |                        |             | 2                        | 27                     | 100.0%      |   |             |  |  |
| Curvularia              |                          |                        |             |                          |                        |             |                          |                        |             |                          |                        |             |   |             |  |  |
| Epicoccum               |                          |                        |             |                          |                        |             |                          |                        |             |                          |                        |             |   |             |  |  |
| Fusarium                |                          |                        |             |                          |                        |             |                          |                        |             |                          |                        |             |   |             |  |  |
| Memnoniella             |                          |                        |             |                          |                        |             |                          |                        |             |                          |                        |             |   |             |  |  |
| Myxomycetes             |                          |                        |             | 1                        | 13                     | 33.3%       |                          |                        |             |                          |                        |             |   |             |  |  |
| Pithomyces              |                          |                        |             |                          |                        |             |                          |                        |             |                          |                        |             |   |             |  |  |
| Stachybotrys            |                          |                        |             |                          |                        |             |                          |                        |             |                          |                        |             |   |             |  |  |
| Stemphylium             |                          |                        |             |                          |                        |             |                          |                        |             |                          |                        |             |   |             |  |  |
| Torula                  |                          |                        |             |                          |                        |             |                          |                        |             |                          |                        |             |   |             |  |  |
| Ulocladium              |                          |                        |             |                          |                        |             |                          |                        |             |                          |                        |             |   |             |  |  |
| <b>Total</b>            | <b>7</b>                 | <b>93</b>              | <b>100%</b> | <b>3</b>                 | <b>40</b>              | <b>100%</b> | <b>1</b>                 | <b>13</b>              | <b>100%</b> | <b>2</b>                 | <b>27</b>              | <b>100%</b> |   |             |  |  |

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



Collected: **Feb 3, 2021**

Received: **Feb 4, 2021**

Reported: **Feb 4, 2021**

Revision: **2**

Project Analyst:  
Shareef Abdelgadir, MS *Shareef Abdelgadir*

Date:  
**02 - 04 - 2021**

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

Date:  
**02 - 08 - 2021**

| Sample Number           | 5 NES-0203-05            |                        |            | 6 NES-0203-06            |                        |            | 7 NES-0203-07            |                        |            | 8 NES-0203-08            |                        |            |
|-------------------------|--------------------------|------------------------|------------|--------------------------|------------------------|------------|--------------------------|------------------------|------------|--------------------------|------------------------|------------|
| Sample Name             | Room 213                 |                        |            | Room 210                 |                        |            | Room 300                 |                        |            | Room 336                 |                        |            |
| Sample Volume           | 75.00 liter              |                        |            | 75.00 liter              |                        |            | 75.00 liter              |                        |            | 75.00 liter              |                        |            |
| Reporting Limit         | 13 spores/m <sup>3</sup> |                        |            | 13 spores/m <sup>3</sup> |                        |            | 13 spores/m <sup>3</sup> |                        |            | 13 spores/m <sup>3</sup> |                        |            |
| Background              | 1                        |                        |            | 1                        |                        |            | 2                        |                        |            | 2                        |                        |            |
| Fragments               | ND                       |                        |            | ND                       |                        |            | ND                       |                        |            | ND                       |                        |            |
| Organism                | Raw Count                | Count / m <sup>3</sup> | % of Total | Raw Count                | Count / m <sup>3</sup> | % of Total | Raw Count                | Count / m <sup>3</sup> | % of Total | Raw Count                | Count / m <sup>3</sup> | % of Total |
| Alternaria              |                          |                        |            |                          |                        |            |                          |                        |            |                          |                        |            |
| Ascospores              | 1                        | 13                     | 50.0%      | 2                        | 27                     | 66.7%      |                          |                        |            | 1                        | 13                     | 25.0%      |
| Aspergillus Penicillium |                          |                        |            |                          |                        |            |                          |                        |            |                          |                        |            |
| Basidiospores           | 1                        | 13                     | 50.0%      | 1                        | 13                     | 33.3%      |                          |                        |            |                          |                        |            |
| Bipolaris Drechslera    |                          |                        |            |                          |                        |            |                          |                        |            |                          |                        |            |
| Chaetomium              |                          |                        |            |                          |                        |            |                          |                        |            |                          |                        |            |
| Cladosporium            |                          |                        |            |                          |                        |            | 4                        | 53                     | 100.0%     | 3                        | 40                     | 75.0%      |
| Curvularia              |                          |                        |            |                          |                        |            |                          |                        |            |                          |                        |            |
| Epicoccum               |                          |                        |            |                          |                        |            |                          |                        |            |                          |                        |            |
| Fusarium                |                          |                        |            |                          |                        |            |                          |                        |            |                          |                        |            |
| Memnoniella             |                          |                        |            |                          |                        |            |                          |                        |            |                          |                        |            |
| Myxomycetes             |                          |                        |            |                          |                        |            |                          |                        |            |                          |                        |            |
| Pithomyces              |                          |                        |            |                          |                        |            |                          |                        |            |                          |                        |            |
| Stachybotrys            |                          |                        |            |                          |                        |            |                          |                        |            |                          |                        |            |
| Stemphylium             |                          |                        |            |                          |                        |            |                          |                        |            |                          |                        |            |
| Torula                  |                          |                        |            |                          |                        |            |                          |                        |            |                          |                        |            |
| Ulocladium              |                          |                        |            |                          |                        |            |                          |                        |            |                          |                        |            |
| Total                   | 2                        | 26                     | 100%       | 3                        | 40                     | 100%       | 4                        | 53                     | 100%       | 4                        | 53                     | 100%       |

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



Collected: Feb 3, 2021

Received: Feb 4, 2021

Reported: Feb 4, 2021

Revision: 2

Project Analyst:  
Shareef Abdelgadir, MS *Shareef Abdelgadir*

Date:  
**02 - 04 - 2021**

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

Date:  
**02 - 08 - 2021**



| Sample Number           | 9                      | FB                     |            |  |  |
|-------------------------|------------------------|------------------------|------------|--|--|
| Sample Name             | <b>Field Blank</b>     |                        |            |  |  |
| Sample Volume           | 0.00 liter             |                        |            |  |  |
| Reporting Limit         | 1 spore/m <sup>3</sup> |                        |            |  |  |
| Background              | NBD                    |                        |            |  |  |
| Fragments               | ND                     |                        |            |  |  |
|                         |                        |                        |            |  |  |
|                         |                        |                        |            |  |  |
| Organism                | Raw Count              | Count / m <sup>3</sup> | % of Total |  |  |
| Alternaria              |                        |                        |            |  |  |
| Ascospores              |                        |                        |            |  |  |
| Aspergillus Penicillium |                        |                        |            |  |  |
| Basidiospores           |                        |                        |            |  |  |
| Bipolaris Drechslera    |                        |                        |            |  |  |
| Chaetomium              |                        |                        |            |  |  |
| Cladosporium            |                        |                        |            |  |  |
| Curvularia              |                        |                        |            |  |  |
| Epicoccum               |                        |                        |            |  |  |
| Fusarium                |                        |                        |            |  |  |
| Memnoniella             |                        |                        |            |  |  |
| Myxomycetes             |                        |                        |            |  |  |
| Pithomyces              |                        |                        |            |  |  |
| Stachybotrys            |                        |                        |            |  |  |
| Stemphylium             |                        |                        |            |  |  |
| Torula                  |                        |                        |            |  |  |
| Ulocladium              |                        |                        |            |  |  |
|                         |                        |                        |            |  |  |
|                         |                        |                        |            |  |  |
| Total                   | ND                     | ND                     |            |  |  |

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



Collected: **Feb 3, 2021**

Received: **Feb 4, 2021**

Reported: **Feb 4, 2021**

Revision: **2**

Project Analyst:  
Shareef Abdelgadir, MS *Shareef Abdelgadir*

Date:  
**02 - 04 - 2021**

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

Date:  
**02 - 08 - 2021**

**Spore Trap Information**

|   |  |   |                 |  |                               |   |                                    |   |                   |  |  |
|---|--|---|-----------------|--|-------------------------------|---|------------------------------------|---|-------------------|--|--|
| <b>Reporting Limit</b>  | 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.  |   |                 |  |                               |   |                                    |   |                   |  |  |
| <b>Blanks</b>   | Results have not been corrected for field or laboratory blanks.  |   |                 |  |                               |   |                                    |   |                   |  |  |
| <b>Background</b>   | <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 Aspergillus and Penicillium may be obscured. The background is rated on a scale of 1 to 5 and each level is determined as follows:</p> <p><b>NBD:</b> No background detected due to possible pump or cassette malfunction. Recollect sample. (Field Blanks will display NBD)</p> <p><b>1 :</b> &lt;5% of field occluded. No spores will be uncountable.</p> <p><b>2 :</b> 5-25% of field occluded.</p> <p><b>3 :</b> 25-75% of field occluded.</p> <p><b>4 :</b> 75-90% of field occluded.</p> <p><b>5 :</b> &gt;90% of field occluded. Suggested recollection of sample.</p>          |   |                 |  |                               |   |                                    |   |                   |  |  |
| <b>Fragments</b>  | 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.   |   |                 |  |                               |   |                                    |   |                   |  |  |
| <b>Control Comparisons</b>  | 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><b>Blue:</b> 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><b>Green:</b> 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><b>Orange:</b> 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><b>Red:</b> 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><b>Violet:</b> 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   | <b>Blue:</b> These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem. | Common Allergen | <b>Green:</b> Although all molds are potential allergens, these are the most common allergens that may be found indoors. | Slightly Higher than Baseline | <b>Orange:</b> The spore count is slightly higher than the outside count and may or may not indicate a source of contamination. | Significantly Higher than Baseline | <b>Red:</b> The spore count is significantly higher than the baseline count and probably indicates a source of contamination. | Ratio Abnormality | <b>Violet:</b> 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. |  |
| Water Damage Indicator  | <b>Blue:</b> These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem.  |   |                 |  |                               |   |                                    |   |                   |  |  |
| Common Allergen   | <b>Green:</b> Although all molds are potential allergens, these are the most common allergens that may be found indoors.   |   |                 |  |                               |   |                                    |   |                   |  |  |
| Slightly Higher than Baseline   | <b>Orange:</b> The spore count is slightly higher than the outside count and may or may not indicate a source of contamination.  |   |                 |  |                               |   |                                    |   |                   |  |  |
| Significantly Higher than Baseline  | <b>Red:</b> The spore count is significantly higher than the baseline count and probably indicates a source of contamination.  |   |                 |  |                               |   |                                    |   |                   |  |  |
| Ratio Abnormality   | <b>Violet:</b> 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.   |   |                 |  |                               |   |                                    |   |                   |  |  |
| <b>Color Coding</b>   | 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**

---

|                   |  |
|-------------------|--|
| <b>Ascospores</b> | <b>Habitat:</b> 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. |
|                   | <b>Effects:</b> Health affects are poorly studied, but many are likely to be allergenic.   |

---

|                      |   |
|----------------------|---|
| <b>Basidiospores</b> | <b>Habitat:</b> 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. |
|                      | <b>Effects:</b> Common allergens and are also associated with hypersensitivity pneumonitis.   |

---

|                     |   |
|---------------------|---|
| <b>Cladosporium</b> | <b>Habitat:</b> 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. |
|                     | <b>Effects:</b> A common allergen, producing more than 10 allergenic antigens and a common cause of hypersensitivity pneumonitis.   |

---

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

---



Company: Global Inc  
 Address: 1818 New York Ave NE Suite 217  
Washington DC 20002

N

SHIP: FEDEX - BOX 50  
 DATE: 02-04-2021



|                               |  |                      |                                 |
|-------------------------------|--|----------------------|---------------------------------|
| Job Number: BB203             | Job Name: <b>Indoor Air Quality Assessment-<br/>PGCPS - Northview ES</b> | Mobile: 443-691-0455 | Email: Channab@globalincusa.net |
| Collector: Shanka Dissanayake |  | Note:                |                                 |
| Date Collected: 020321        |  |                      |                                 |

| 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  | NES-0203-01 | Ambient     | S        | 75 L   |       |
| 2  | NES-0203-02 | Room 253    | S        | 75 L   |       |
| 3  | NES-0203-03 | Room 242    | S        | 75 L   |       |
| 4  | NES-0203-04 | Room 203    | S        | 75 L   |       |
| 5  | NES-0203-05 | Room 213    | S        | 75 L   |       |
| 6  | NES-0203-06 | Room 210    | S        | 75 L   |       |
| 7  | NES-0203-07 | Room 300    | S        | 75 L   |       |
| 8  | NES-0203-08 | Room 336    | S        | 75 L   |       |
| 9  | FB          | Field blank | S        |        |       |
| 10 |             |             |          |        |       |
| 11 |             |             |          |        |       |
| 12 |             |             |          |        |       |
| 13 |             |             |          |        |       |
| 14 |             |             |          |        |       |
| 15 |             |             |          |        |       |
| 16 |             |             |          |        |       |

|              |       |                                 |              |
|--------------|-------|---------------------------------|--------------|
| Released by: | Date: | Received By: <i>[Signature]</i> | Date: 2-4-21 |
|--------------|-------|---------------------------------|--------------|