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March 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: Lamont Elementary School

Dear Mr. Baylor,

On December 2, 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 Lamont Elementary School located at 7101 Good Luck Rd, New Carrollton, MD 20784.

#### 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 chainof-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.



### Observations

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

### **Table 1: Observations**

| Location           | Observations |
|--------------------|--------------|
| Room 25            | No issues    |
| Room 21            | No issues    |
| Room 16            | No issues    |
| Media Center       | No issues    |
| Room 9             | No issues    |
| Multi-Purpose Room | 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, Table 3 and Table 4.

### 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 were a bit higher in some locations than the ASHRAE recommended range for winter.

### 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.



### 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 2, 2020, the outdoor (ambient) carbon dioxide concentration was approximately 401 ppm so indoor concentrations should not exceed approximately 1101 ppm (700 + 401). 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 Room 25, the Media Center, Room 9, and the Multi-Purpose Room indicate elevated presence of *Aspergillus/Penicillium*. The horizontal surfaces of the above locations that had indoor mold amplification were thoroughly recleaned in late February 2021, and air scrubbers with HEPA filters were operated for 24-36 hours. Subsequently, these locations were reinspected, and the analytical results of air samples collected indicated normal fungal ecology. Laboratory analytical results are attached to this report.

| Sample Location<br>Standards | Temp<br><sup>0</sup> F<br>ASHRAE<br>68 to 75°F | RH%<br>ASHRAE<br><65% | CO<br>ppm<br>NAAQS<br><9 | CO2<br>ppm<br>ASHRAE<br>1101 | Normal<br>Fungal<br>Ecology? |
|------------------------------|--|-----------------------|--------------------------|------------------------------|------------------------------|
| Ambient                      | 50.6   | 236                   | 0                        | 401                          | -                            |
| Room 25                      | 74.1   | 23.5                  | 0                        | 458                          | No                           |
| Room 21                      | 72.9   | 20.0                  | 0                        | 405                          | Yes                          |
| Room 16                      | 74.5   | 17.7                  | 0                        | 407                          | Yes                          |
| Media Center                 | 77.9   | 15.5                  | 0                        | 408                          | No                           |
| Room 9                       | 78.5   | 22.1                  | 0                        | 430                          | No                           |
| Multi-Purpose Room           | 75.4   | 19.3                  | 0                        | 412                          | No                           |



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| Sample Location    | Temp<br><sup>0</sup> F     | RH%  | CO<br>ppm   | CO2<br>ppm     | Normal             |
|--------------------|----------------------------|------|-------------|----------------|--------------------|
| Standards          | ASHRAEASHRAE68 to 75°F<65% |      | NAAQS<br><9 | ASHRAE<br>1135 | Fungal<br>Ecology? |
| Ambient            | 50.0                       | 66.0 | 0           | 435            | -                  |
| Room 25            | 87.0                       | 49.0 | 0           | 444            | Yes                |
| Media Center       | 58.0                       | 58.0 | 0           | 464            | Yes                |
| Room 9             | 73.0                       | 38.0 | 0           | 445            | No                 |
| Multi-Purpose Room | 49.0                       | 65.0 | 0           | 560            | Yes                |

### Table 3: Air Quality Results (Inspected on Feb 27, 2021)

### Table 4: Air Quality Results (Inspected on March 5, 2021)

| Sample Location | Temp<br><sup>0</sup> F | RH%            | CO<br>ppm   | CO2<br>ppm     | Normal             |  |
|-----------------|------------------------|----------------|-------------|----------------|--------------------|--|
| Standards       | ASHRAE<br>68 to 75°F   | ASHRAE<br><65% | NAAQS<br><9 | ASHRAE<br>1112 | Fungal<br>Ecology? |  |
| Ambient         | 53.0                   | 23.0           | 0           | 412            | -                  |  |
| Room 09         | 49.0                   | 34.0           | 0           | 407            | Yes                |  |

### **Conclusions and Recommendations**

Among the comfort parameters measured, the indoor temperature readings were a bit higher in some locations than the ASHRAE recommended range for winter.

The indoor mold samples collected from Room 25, the Media Center, Room 9, and the Multi-Purpose Room indicate elevated presence of *Aspergillus/Penicillium* during the screening performed on December 2, 2020, while the other mold sample was found to have a normal fungal ecology for an indoor environment. The above locations were thoroughly recleaned and resampled in late February to Early March, 2021, and the analytical results indicated normal fungal ecology.



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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



1818 New York Avenue Suite 217 Washington, DC 20002 www.globalincusa.net

### ATTACHMENT I

Air Sample Analytical Results and Chain-Of-Custody Form



# #20045189

Analysis Report prepared for

# Global, Inc.

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

Phone: (443) 691-0455

BB203 Indoor Air Quality Lamont Elementary School

Collected: December 2, 2020 Received: December 3, 2020 Reported: December 3, 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 3rd, 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.

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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

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### Kenna Leonzo Global, Inc.

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

### **BB203** Indoor Air Quality

Lamont Elementary School

# #20045189

SOP - HMC#101

| Sample Number          | 1         | LES-12  | 202-01      | 2   | LES-12           | 202-02        | 3   | LES-12                   | 202-03        | 4                                | LES-12                   | 202-04    |  |
|------------------------|-----------|---|-------------|---|------------------|---------------|---|--------------------------|---------------|----------------------------------|--------------------------|-----------|--|
| Sample Name            |           | Ambient                                       |             |   | Room 25          |               |   | Room 21                  |               |                                  | Room 16                  |           |  |
| Sample Volume          |           | 75.00 liter                                   |             |   | 75.00 liter      |               |   | 75.00 liter              |               | 75.00 liter                      |                          |           |  |
| Reporting Limit        |           | 13 spores/m <sup>3</sup>                      | 1           | 13 spores/m <sup>3</sup>                            |                  |               |   | 13 spores/m <sup>3</sup> |               |                                  | 13 spores/m <sup>3</sup> | 3         |  |
| Background             |           | 2   |             |   | 2                |               |   | 2                        |               |                                  | 2                        |           |  |
| Fragments              |           | ND  |             |   | ND               |               |   | ND                       |               |                                  | ND                       |           |  |
| Organism               | Raw Count | 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 Tota |  |
| Alternaria             |           |   |             |   |                  |               |   |                          |               |                                  |                          |           |  |
| Ascospores             | 2         | 27  | 25.0%       | 1   | 13               | <1%           |   |                          |               |                                  |                          |           |  |
| spergillus/Penicillium | 3         | 40  | 37.5%       | 308   | 4107             | 99.0%         | 12  | 160                      | 85.7%         | 3                                | 40                       | 60.0%     |  |
| Basidiospores          | 1         | 13  | 12.5%       |   |                  |               |   |                          |               | 1                                | 13                       | 20.09     |  |
| Bipolaris Drechslera   |           |   |             |   |                  |               |   |                          |               |                                  |                          |           |  |
| Chaetomium             |           |   |             |   |                  |               |   |                          |               |                                  |                          |           |  |
| Cladosporium           |           |   |             |   |                  |               | 1   | 13                       | 7.1%          |                                  |                          |           |  |
| Curvularia             |           |   |             |   |                  |               |   |                          |               |                                  |                          |           |  |
| Epicoccum              |           |   |             |   |                  |               |   |                          |               |                                  |                          |           |  |
| Fusarium               |           |   |             |   |                  |               |   |                          |               |                                  |                          |           |  |
| Memnoniella            |           |   |             |   |                  |               |   |                          |               |                                  |                          |           |  |
| Myxomycetes            | 2         | 27  | 25.0%       | 2   | 27               | <1%           | 1   | 13                       | 7.1%          | 1                                | 13                       | 20.0      |  |
| Pithomyces             |           |   |             |   |                  |               |   |                          |               |                                  |                          |           |  |
| Stachybotrys           |           |   |             |   |                  |               |   |                          |               |                                  |                          |           |  |
| Stemphylium            |           |   |             |   |                  |               |   |                          |               |                                  |                          |           |  |
| Torula                 |           |   |             |   |                  |               |   |                          |               |                                  |                          |           |  |
| Ulocladium             |           |   |             |   |                  |               |   |                          |               |                                  |                          |           |  |
| Total                  | 8         | 107   | 100%        | 311   | 4147             | 100%          | 14  | 186                      | 100%          | 5                                | 66                       | 1009      |  |
| Water Damage Indicato  | r         | Commo   | on Allergen |   | Slightly Higher  | than Baseline | Signi   | ficantly Higher          | than Baseline |                                  | Ratio Abnormal           | ity       |  |
|                        |           | Collected: Dec 2                              | 2, 2020     | Rece  | eived: Dec 3, 20 | 20            | Reported:   | Dec 3, 2020              |               |                                  |                          |           |  |
|                        | <b>ES</b> | Project Analyst:                              |             | areed Abdelgadir 12 - 03 - 202                      |                  |               | 20 Reviewed By:<br>Steve Hayes, BSMT Stephen 7<br>(804) 562-2425 contact@hayeer |                          |               | 1. Hayes Date:<br>12 - 03 - 2020 |                          |           |  |

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### Kenna Leonzo Global, Inc.

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### **BB203** Indoor Air Quality Lamont Elementary School

## #20045189

SOP - HMC#101

| Sample Number          | 5         | LES-12                   | 202-05      | 6         | LES-12                   | 202-06        | 7         | LES-12                   | 202-07        |              |        |
|------------------------|-----------|--------------------------|-------------|-----------|--------------------------|---------------|-----------|--------------------------|---------------|--------------|--------|
| Sample Name            | N         | ledia Cente              | r           |           | Room 9                   |               | М         | ulti Purpos              | e             |              |        |
| Sample Volume          |           | 75.00 liter              |             |           | 75.00 liter              |               |           | 75.00 liter              |               |              |        |
| Reporting Limit        |           | 13 spores/m <sup>3</sup> | 1           |           | 13 spores/m <sup>3</sup> | }             |           | 13 spores/m <sup>3</sup> |               |              |        |
| Background             |           | 2                        |             |           | 2                        |               |           | 2                        |               |              |        |
| Fragments              |           | 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    |              |        |
| Alternaria             | 1         | 13                       | 2.0%        |           |                          |               |           |                          |               |              |        |
| Ascospores             | · ·       | 10                       | 2.0.0       | 1         | 13                       | 2.7%          | 1         | 13                       | 1.9%          |              |        |
| spergillus Penicillium | 45        | 600                      | 88.2%       | 32        | 427                      | 86.5%         | 43        | 573                      | 82.7%         |              |        |
| Basidiospores          |           |                          |             |           |                          |               | 1         | 13                       | 1.9%          |              |        |
| Bipolaris Drechslera   |           |                          |             |           |                          |               |           |                          |               |              |        |
| Chaetomium             |           |                          |             |           |                          |               |           |                          |               |              |        |
| Cladosporium           | 4         | 53                       | 7.8%        | 4         | 53                       | 10.8%         | 7         | 93                       | 13.5%         |              |        |
| Curvularia             |           |                          |             |           |                          |               |           |                          |               |              |        |
| Epicoccum              | 1         | 13                       | 2.0%        |           |                          |               |           |                          |               |              |        |
| Fusarium               |           |                          |             |           |                          |               |           |                          |               |              |        |
| Memnoniella            |           |                          |             |           |                          |               |           |                          |               |              |        |
| Myxomycetes            |           |                          |             |           |                          |               |           |                          |               |              |        |
| Pithomyces             |           |                          |             |           |                          |               |           |                          |               |              |        |
| Stachybotrys           |           |                          |             |           |                          |               |           |                          |               |              |        |
| Stemphylium            |           |                          |             |           |                          |               |           |                          |               |              |        |
| Torula                 |           |                          |             |           |                          |               |           |                          |               |              |        |
| Ulocladium             |           |                          |             |           |                          |               |           |                          |               |              |        |
|                        |           |                          | 1000        | 07        | 400                      | 1000          |           |                          | 100%          |              |        |
| Total                  | 51        | 679                      | 100%        | 37        | 493                      | 100%          | 52        | 692                      | 100%          |              |        |
| Water Damage Indicato  | r         | Commo                    | on Allergen |           | Slightly Higher          | than Baseline | Signi     | ficantly Higher          | than Baseline | Ratio Abnorr | nality |
|                        |           | Collected: Dec 2         | 2, 2020     | Rece      | eived: Dec 3, 20         | 20            | Reported: | Dec 3, 2020              |               |              |        |



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12 - 03 - 2020

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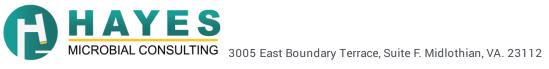
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### **BB203** Indoor Air Quality Lamont Elementary School

| ,                                  |   |
|------------------------------------|---|
| 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:   |
|                                    | <ul> <li>NBD: No background detected due to possible pump or cassette malfunction. Recollect sample. (Field Blanks will display NBD)</li> <li>1: &lt;5% of field occluded. No spores will be uncountable.</li> <li>2: 5-25% of field occluded.</li> <li>3: 25-75% of field occluded.</li> <li>4: 75-90% of field occluded.</li> <li>5: &gt;90% of field occluded.</li> </ul>  |
| 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<br>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<br>present outdoors at any given time. There will always be some mold spores present in "normal" indoor environments. The purpose of sampling and counting<br>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.<br>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<br>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.<br>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 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.  |



| Kenna Leonzo<br>Global, Inc.  |          | BB203<br>Indoor Air Quality  | #20045189                             |
|---|----------|--|---------------------------------------|
| 1818 New York Ave. Suite 217<br>Washington, DC, 20002<br>(443) 691-0455 |          | Lamont Elementary School   | Organism Descriptions                 |
| Alternaria  | Habitat: | Commonly found outdoors in soil and decaying plants. Indoors, it is commonly found on window sills and   | other horizontal surfaces.            |
|   | Effects: | A common allergen and has been associated with hypersensitivity pneumonitis. Alternaria is capable of promay be associated with disease in humans or animals. Occasionally an agent of onychomycosis, ulcerated sinusitis, principally in the immunocompromised patient.   |                                       |
| Ascospores  | Habitat: | A large group consisting of more than 3000 species of fungi. Common plant pathogens and outdoor numb<br>rain. Most of the genera are indistinguishable by spore trap analysis and are combined on the report.  | oers become very high following       |
|   | 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 materi<br>a wide variety of substrates.   | ial. Are able to grow well indoors on |
|   | Effects: | This group contains common allergens and many can cause hypersensitivity pneumonitis. They may cause opportunistic pathogens. Many species produce mycotoxins which may be associated with disease in hum production is dependent on the species, the food source, competition with other organisms, and other env                     | nans and other animals. Toxin         |
| Basidiospores   | Habitat: | A common group of Fungi that includes the mushrooms and bracket fungi. They are saprophytes and plan can cause structural damage to buildings.   | t pathogens. In wet conditions they   |
|   | 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 livin<br>lower in the winter and often relatively high in the summer, especially in high humidity. The outdoor numbe<br>and evening. Indoors, it can be found growing on textiles, wood, sheetrock, moist window sills and in HVAC | ers often spike in the late afternoon |
|   | Effects: | A common allergen, producing more than 10 allergenic antigens and a common cause of hypersensitivity p   | ,                                     |
| Epicoccum   | Habitat: | It is found in soil and plant litter and is a plant pathogen. It can grow indoors on a variety of substrates, inc<br>commonly found on wet drywall.  | luding paper and textiles and is      |
|   | Effects: | It is a common allergen. No cases of infection have been reported in humans.   |                                       |



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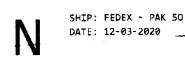
**Organism Descriptions** 

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





Company: <u>(106al, Inc</u> Address: <u>1818 New York Alawye,</u> <u>Suite 217 Washington, Dc</u> 20002



8160 4411 5690



| Job Numb+: BB203 |           |                                       |                | Job Name: Indoor Air Quality<br>Lamont Elementary School |              |              |            |        |     |        |         |                      |              |             |                  |  |
|------------------|-----------|---------------------------------------|----------------|--|--------------|--------------|------------|--------|-----|--------|---------|----------------------|--------------|-------------|------------------|--|
|                  | or: Kenna | a Leonzo                              |                |  | Lamont E     | lementary    | School     |        | Mo  | bile:  | 443-691 | -0455                | Email:       | channa      | ab@globalincusa. |  |
| Date C           | olleged:  | 12/02/2020                            |                |  |              |              |            |        | Not | te:    |         |                      |              |             |                  |  |
|                  | Anysis Ty |                                       |                | Analysis Description                                     |              |              |            |        |     |        | und     | Accepted Media Types |              |             |                  |  |
| Spore            | Trap      | S                                     | Identification |  |              |              |            |        | 24  | 4 Hour |         | Air Casset           | tes, Impac   | t Slides    |                  |  |
|                  |           | S+                                    | Spore Trap A   |  |              |              |            |        | 24  | Hour   |         | Air Casset           | tes, Impact  | Slides      |                  |  |
| Direct           | ID        | D                                     | ID & Semi-Qu   |  |              | -            |            |        | 24  | Hour   |         | Bio-Tape, T          | ape, Swab    | , Bulk, Aga | Ir Plate         |  |
|                  |           | D+                                    | Direct Analys  |  |              | -            |            |        | 24  | Hour   |         | Bio-Tape, T          | ape, Swab    | , Bulk, Aga | Ir Plate         |  |
| Culture          | e         | C1                                    | Identification | & Enumerati  | on of Mold o | only         |            |        | 71  | Day    |         | Air Plate, A         | gar Plate,   | Swab, Buik  | <                |  |
|                  |           | C2                                    | Identification | & Enumerati  | on of Bacter | ia only      |            |        | 4 ( | Day    |         | Air Plate, A         | gar Plate,   | Swab, Bulk  | (                |  |
|                  |           | C3                                    | Identification |  |              | nd Bacteria  |            |        | 70  | Day    |         | Air Plate, A         | gar Plate, S | Swab, Bulk  | (                |  |
|                  |           | C5                                    | Coliform Scre  | -  |              |              |            |        | 20  | Day    |         | Agar Plate,          | Swab, Bul    | k           |                  |  |
| Partic           | le        | TPA                                   | Total Particul | ate Analysis,  | ID & Count ( | Does Not Inc | lude Mold) |        | 24  | Hour   |         | Air Cassett          | es, Impact   | Slides, Bio |                  |  |
| #                | Nur       | mber                                  |                |  | Sample       |              |            | Analys | is  | V      | olume   |                      |              | Notes       |                  |  |
| 1                | LES-      | 1202-01                               | Ambient        |  |              |              |            | S      |     |        | 75 L    |                      |              |             |                  |  |
| 2                | LES-      | 1202-02                               | Room 25        |  |              |              |            |        |     |        | 1       |                      |              |             |                  |  |
| 3                | LES-      | 1202-03                               | Room 21        |  |              |              |            |        |     |        |         |                      |              |             |                  |  |
| 4                | LES-      | 1202-04                               | Room 16        |  |              |              | <b>-</b>   |        |     |        |         | 1                    |              |             |                  |  |
| 5                | LES-      | 1202-05                               | Media Ce       | enter  |              |              |            |        |     |        |         | 1                    |              |             |                  |  |
| 6                | LES-      | 1202-06                               | Room 9         |  |              |              |            |        |     |        |         |                      |              |             |                  |  |
| 7                | LES-      | 1202-07                               | Multi Pur      | pose   |              |              |            | V      |     |        | 5       |                      |              |             |                  |  |
| 8                |           |                                       |                |  |              |              |            |        |     |        | ×       |                      |              |             |                  |  |
| 9                |           |                                       |                |  |              |              |            |        |     |        |         |                      |              | <u>,</u>    |                  |  |
| 10               |           |                                       |                |  |              |              |            |        |     |        |         |                      |              |             |                  |  |
| 11               |           |                                       |                |  |              |              |            |        |     |        |         |                      |              |             |                  |  |
| 12               |           |                                       |                |  |              |              |            |        |     |        |         |                      |              |             |                  |  |
| 13               |           | · · · · · · · · · · · · · · · · · · · |                |  |              |              |            |        |     |        |         | 1                    |              |             |                  |  |
| 14               |           |                                       |                |  |              |              |            |        |     |        |         | 1                    | <u> </u>     |             |                  |  |
| 15               |           | <b>.</b>                              |                |  |              |              |            |        |     |        |         |                      |              | <u></u>     |                  |  |
| 16               |           |                                       |                |  |              |              |            |        |     |        |         |                      |              |             |                  |  |
| Relea            | ased by:  | Kenna                                 | Leonz          | 0  | Date: /٦     | 12/20        | Received   | By:    |     |        |         | N                    | <u> </u>     | Date        | $\sim 1000$      |  |
|                  |           |                                       |                |  | -            | ,,           | 1          |        |     |        |         | 111                  |              |             |                  |  |

Chain of Custody



# #21006708

Analysis Report prepared for

# Global, Inc.

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

Phone: (443) 691-0455

20-064 IAQ reinspection Lamont ES

Collected: February 27, 2021 Received: March 1, 2021 Reported: March 1, 2021 We would like to thank you for trusting Hayes Microbial for your analytical needs! We received 5 samples by FedEx in good condition for this project on March 1st, 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.

John N. Hoyces

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



EPA Laboratory ID: VA01419



Lab ID: #188863





DPH License: #PH-0198

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

(804) 562-3435

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

### 20-064 IAQ reinspection Lamont ES

# #21006708

SOP - HMC#101

| Sample Number              | 1         | 0                                     | 1                      | 2                        | 0                      | 2                      | 3            | 0                        | 3             | 4                                  | 0                        | 4               |
|----------------------------|-----------|---------------------------------------|------------------------|--------------------------|------------------------|------------------------|--------------|--------------------------|---------------|------------------------------------|--------------------------|-----------------|
| Sample Name                |           | ambient                               |                        |                          | Room 25                |                        | Media Center |                          |               | Room 9                             |                          |                 |
| Sample Volume              |           | 75.00 liter                           |                        |                          | 75.00 liter            |                        | 75.00 liter  |                          |               | 75.00 liter                        |                          |                 |
| Reporting Limit            |           | 13 spores/m <sup>3</sup>              | 1                      | 13 spores/m <sup>3</sup> |                        |                        |              | 13 spores/m <sup>3</sup> |               |                                    | 13 spores/m <sup>3</sup> |                 |
| Background                 |           | 2                                     |                        |                          | 2                      |                        |              | 2                        |               |                                    | 3                        |                 |
| Fragments                  | ND        |                                       |                        |                          | ND                     |                        |              | ND                       |               |                                    | ND                       |                 |
| Organism                   | Baw Count | Raw 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 Tota       |
| Alternaria                 |           |                                       | <sup>76</sup> 01 10tai | naw count                |                        | % 01 10tai             |              |                          | 78 01 10tai   |                                    |                          | <i>~</i> 01 100 |
| Ascospores                 | 8         | 107                                   | 53.3%                  | 5                        | 67                     | 45.5%                  | 1            | 13                       | 25.0%         | 5                                  | 67                       | 1.29            |
| spergillus/Penicillium     | 2         | 27                                    | 13.3%                  | 5                        | 01                     | +0.0%                  | 2            | 27                       | 50.0%         | 418                                | 5573                     | 98.65           |
| Basidiospores              | 5         | 67                                    | 33.3%                  | 2                        | 27                     | 18.2%                  | L            | 21                       | 00.0%         | 1                                  | 13                       | <19             |
| Bipolaris Drechslera       |           | 01                                    | 00.0%                  |                          | 21                     | 10.270                 |              |                          |               | · ·                                | 10                       |                 |
| Chaetomium                 |           |                                       |                        |                          |                        |                        |              |                          |               |                                    |                          |                 |
| Cladosporium               |           |                                       |                        | 3                        | 40                     | 27.3%                  | 1            | 13                       | 25.0%         |                                    |                          |                 |
| Curvularia                 |           |                                       |                        |                          |                        |                        |              |                          |               |                                    |                          |                 |
| Epicoccum                  |           |                                       |                        |                          |                        |                        |              |                          |               |                                    |                          |                 |
| Fusarium                   |           |                                       |                        |                          |                        |                        |              |                          |               |                                    |                          |                 |
| Memnoniella                |           |                                       |                        |                          |                        |                        |              |                          |               |                                    |                          |                 |
| Myxomycetes                |           |                                       |                        | 1                        | 13                     | 9.1%                   |              |                          |               |                                    |                          |                 |
| Pithomyces                 |           |                                       |                        |                          |                        |                        |              |                          |               |                                    |                          |                 |
| Stachybotrys               |           |                                       |                        |                          |                        |                        |              |                          |               |                                    |                          |                 |
| Stemphylium                |           |                                       |                        |                          |                        |                        |              |                          |               |                                    |                          |                 |
| Torula                     |           |                                       |                        |                          |                        |                        |              |                          |               |                                    |                          |                 |
| Ulocladium                 |           |                                       |                        |                          |                        |                        |              |                          |               |                                    |                          |                 |
| Total                      | 15        | 201                                   | 100%                   | 11                       | 147                    | 100%                   | 4            | 53                       | 100%          | 424                                | 5653                     | 100             |
| Water Damage Indicato      | r         | Commo                                 | on Allergen            |                          | Slightly Higher        | than Baseline          | Signi        | ficantly Higher          | than Baseline |                                    | Ratio Abnormal           | ity             |
|                            |           | Collected: Feb 2                      | 27, 2021               | Rece                     | eived: Mar 1, 20       | 21                     | Reported:    | Mar 1, 2021              |               |                                    |                          |                 |
| <b>HAY</b><br>MICROBIAL CO | <b>ES</b> | Project Analyst:<br>Connor Gailliot,  |                        | A                        |                        | Date:<br>03 - 01 - 202 | Reviewe      | ed By:                   | Honlan 1      | 1. Hayes                           | Date:                    | 1 - 2021        |

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Page: 2 of 5

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

20-064 IAQ reinspection Lamont ES

## #21006708

SOP - HMC#101

| Sample Number           | 5                         | 0                        | 5               |  |  |                   |       |                 |               |  |                |     |  |
|-------------------------|---------------------------|--------------------------|-----------------|--|--|-------------------|-------|-----------------|---------------|--|----------------|-----|--|
| Sample Name             | Multi                     | -Purpose R               | oom             |  |  |                   |       |                 |               |  |                |     |  |
| Sample Volume           |                           | 75.00 liter              |                 |  |  |                   |       |                 |               |  |                |     |  |
| Reporting Limit         |                           | 13 spores/m <sup>3</sup> | 3               |  |  |                   |       |                 |               |  |                |     |  |
| Background              |                           | 2                        |                 |  |  |                   |       |                 |               |  |                |     |  |
| Fragments               |                           | ND                       |                 |  |  |                   |       |                 |               |  |                |     |  |
|                         |                           |                          |                 |  |  |                   |       |                 |               |  |                |     |  |
|                         |                           |                          |                 |  |  |                   |       |                 |               |  |                |     |  |
| Organism                | Raw Count                 | Count / m <sup>3</sup>   | % of Total      |  |  |                   |       |                 |               |  |                |     |  |
| Alternaria              |                           |                          |                 |  |  |                   |       |                 |               |  |                |     |  |
| Ascospores              |                           |                          |                 |  |  |                   |       |                 |               |  |                |     |  |
| Aspergillus Penicillium | 3                         | 40                       | 60.0%           |  |  |                   |       |                 |               |  |                |     |  |
| Basidiospores           | 1                         | 13                       | 20.0%           |  |  |                   |       |                 |               |  |                |     |  |
| Bipolaris Drechslera    |                           |                          |                 |  |  |                   |       |                 |               |  |                |     |  |
| Chaetomium              |                           |                          |                 |  |  |                   |       |                 |               |  |                |     |  |
| Cladosporium            | 1                         | 13                       | 20.0%           |  |  |                   |       |                 |               |  |                |     |  |
| Curvularia              |                           |                          |                 |  |  |                   |       |                 |               |  |                |     |  |
| Epicoccum               |                           |                          |                 |  |  |                   |       |                 |               |  |                |     |  |
| Fusarium                |                           |                          |                 |  |  |                   |       |                 |               |  |                |     |  |
| Memnoniella             |                           |                          |                 |  |  |                   |       |                 |               |  |                |     |  |
| Myxomycetes             |                           |                          |                 |  |  |                   |       |                 |               |  |                |     |  |
| Pithomyces              |                           |                          |                 |  |  |                   |       |                 |               |  |                |     |  |
| Stachybotrys            |                           |                          |                 |  |  |                   |       |                 |               |  |                |     |  |
| Stemphylium             |                           |                          |                 |  |  |                   |       |                 |               |  |                |     |  |
| Torula                  |                           |                          |                 |  |  |                   |       |                 |               |  |                |     |  |
| Ulocladium              |                           |                          |                 |  |  |                   |       |                 |               |  |                |     |  |
|                         |                           |                          |                 |  |  |                   |       |                 |               |  |                |     |  |
|                         |                           |                          |                 |  |  |                   |       |                 |               |  |                |     |  |
| Total                   | 5                         | 66                       | 100%            |  |  |                   |       |                 |               |  |                |     |  |
| Water Damage Indicato   | Indicator Common Allergen |                          | Common Allergen |  |  | ner than Baseline | Signi | ficantly Higher | than Baseline |  | Ratio Abnormal | ity |  |



Project Analyst:

hen TI. Dayls Connor Gailliot, BS 03 - 01 - 2021 Steve Hayes, BSMT 🏒 contact@hayesmicrobial.com 3005 East Boundary Terrace, Suite F. Midlothian, VA. 23112 (804) 562-3435

Date:

Reported: Mar 1, 2021

Reviewed By:

Received: Mar 1, 2021

Date: 03 - 01 - 2021

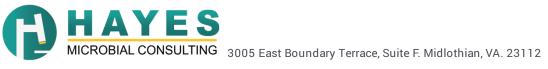
Page: 3 of 5

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| 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:   |
|                                    | <ul> <li>NBD: No background detected due to possible pump or cassette malfunction. Recollect sample. (Field Blanks will display NBD)</li> <li>1: &lt;5% of field occluded. No spores will be uncountable.</li> <li>2: 5-25% of field occluded.</li> <li>3: 25-75% of field occluded.</li> <li>4: 75-90% of field occluded.</li> <li>5: &gt;90% of field occluded. Suggested recollection of sample.</li> </ul>  |
| 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<br>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<br>present outdoors at any given time. There will always be some mold spores present in "normal" indoor environments. The purpose of sampling and counting<br>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.<br>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<br>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.<br>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 indoor 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.  |



| Shane Prabuddha<br>Global, Inc.<br>1818 New York Ave. Suite 217 |          | <b>20-064</b><br>IAQ reinspection<br>Lamont ES   | #21006708                               |  |  |  |  |
|---|----------|--|---|--|--|--|--|
| Washington, DC, 20002<br>(443) 691-0455                         |          |  | Organism Descriptions                   |  |  |  |  |
| Ascospores  | Habitat: | A large group consisting of more than 3000 species of fungi. Common plant pathogens and outdoor nun rain. Most of the genera are indistinguishable by spore trap analysis and are combined on the report.  | nbers become very high following        |  |  |  |  |
|   | 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 mate a wide variety of substrates.  | erial. Are able to grow well indoors on |  |  |  |  |
|   | Effects: | This group contains common allergens and many can cause hypersensitivity pneumonitis. They may cau opportunistic pathogens. Many species produce mycotoxins which may be associated with disease in hu production is dependent on the species, the food source, competition with other organisms, and other en                     | mans and other animals. Toxin           |  |  |  |  |
| Basidiospores   | Habitat: | A common group of Fungi that includes the mushrooms and bracket fungi. They are saprophytes and pla can cause structural damage to buildings.  | ant pathogens. In wet conditions they   |  |  |  |  |
|   | 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 liv<br>lower in the winter and often relatively high in the summer, especially in high humidity. The outdoor numb<br>and evening. Indoors, it can be found growing on textiles, wood, sheetrock, moist window sills and in HVA | pers often spike in the late afternoon  |  |  |  |  |
|   | 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: <u>FGlobal</u> , Inc.<br>Address: <u>1818 New York Avenue, S</u> uite 217<br><u>Washington</u> , DC 20002 |                            |            |               |  |                            |            | N SHIP: FEDEX - BOX SO DATE: 03-01-2021 8160 4410 5634 21006708 |         |   |   |   |   |  |  |
|--|----------------------------|------------|---------------|--|----------------------------|------------|---|---------|---|---|---|---|--|--|
| Job Nu   | mber: 2                    | 0-064      |               | Job Name: IAQ Reinspection                               |                            |            |   |         | 21006708  |   |   |   |  |  |
|  | Collector: Shane Prabuddha |            |               |  | LAMONT ES                  |            |   |         | Mobile: 443-691-0455 Email: Channab@globalincusa.ne |   |   |   |  |  |
| Date C   | ollected:                  | 200 02     | 127/21        |  |                            |            |   | Note:   |   |   |   |   |  |  |
| Analysis Type  |                            |            |               | Analysis Description                                     |                            |            |   |         | Turnaround Accepted Media Types                     |   |   |   |  |  |
| Spore T  | rap                        | S          | Identificatio | n & Enumeratio   | on of Fungal Spores        |            |   | 24      | Hour  |   | tes, Impact Slide   |   |  |  |
|  |                            | S+         | Spore Trap    | Analysis with D  | ander, Fiber, and Pollen o | counts     |   |         | Hour  | Air Casset                                      | tes, Impact Slide   | S   |  |  |
| Direct II  | D                          | D          | ID & Semi-C   | uantative Enun   | neration of spores and m   | ycelium    |   | 24      | Hour  | Bio-Tape, 1                                     | ape, Swab, Bulk   | , Agar Plate  |  |  |
|  |                            | D+         | Direct Analy  | sis with Fully (   | Quantitative spore count   |            |   | 24      | Hour  |   | ape, Swab, Bulk   |   |  |  |
| Culture  |                            | C1         | Identificatio | n & Enumeratio   | on of Mold only            |            |   | 70      | Day   |   | gar Plate, Swab   |   |  |  |
|  |                            | C2         | Identificatio | n & Enumeratio   | on of Bacteria only        |            |   |         | Day   | and the local design of the local design of the | gar Plate, Swab   | the operation of the second |  |  |
|  |                            | C3         |               |  | on of Mold and Bacteria    |            |   |         | Day   |   | gar Plate, Swab   | , Bulk  |  |  |
|  |                            | C5         |               | reen for Sewag   |                            |            |   | 2 Day   |   |   | Agar Plate, Swab, Bulk  |   |  |  |
| Particle   | •                          | TPA        | Total Partic  | Particulate Analysis, ID & Count (Does Not Include Mold) |                            |            |   | 24      | Hour  | Air Cassettes, Impact Slides, Bio-Tape          |   |   |  |  |
| #  | Nu                         | mber       |               |  | Sample                     |            | Analys  | is      | Volume  |   |   | Notes   |  |  |
| 1  | 0                          | 1          |               | Ambient  |                            |            | 5   | 756     |   | 1:50  |   | CO2:435 CP. D   |  |  |
| 2  | 0                          | 2          |               | 1200m 25 25  |                            |            | 5   |         | 75L   | 1:87  |   | Co2:444 Co2: 0  |  |  |
| 3  |                            | 3          |               | Media Center   |                            |            | 5   | 75L     |   | 1:58  |   |   |  |  |
| 4  | 6                          | 24         |               | Room 9   |                            | 3          |   | 751     |   | 17:79   | and the second se |   |  |  |
| 5  | C                          | 5          |               | Mut Mu   | Hi- Purpose 1              | room       | 5   |         | 75L   | 1:49  | RH:65   | G2:560 CO: 0  |  |  |
| 6  |                            |            |               |  |                            |            |   |         |   |   |   |   |  |  |
| 7  |                            |            |               |  |                            |            |   |         |   |   |   |   |  |  |
| 8  |                            |            |               |  |                            |            |   |         |   |   |   |   |  |  |
| 9  |                            |            |               |  |                            |            |   |         |   |   | -   |   |  |  |
| 10   |                            |            |               |  |                            |            |   |         |   |   | <u></u>   |   |  |  |
| 11   | 1                          |            |               |  |                            |            |   |         |   |   |   |   |  |  |
| 12   |                            |            |               |  |                            |            |   |         |   |   |   | 0.2 <sup>°</sup>  |  |  |
| 13   |                            |            |               |  |                            |            |   |         |   |   |   |   |  |  |
| 14   |                            |            | _             |  |                            |            |   |         |   |   |   |   |  |  |
| 15   |                            |            |               |  |                            |            |   |         |   |   |   |   |  |  |
| 16   |                            |            |               |  |                            |            |   |         |   |   |   |   |  |  |
|  | sed by: S                  | hane Prabu |               | ndary Terrace, Su  | Date: 02 27 2              | (804) 562- |   | contact | t@hayesmicrobia                                     | al.com  |   | Date3// 24<br>Form #20, Rev.3, March 23, 20<br>Chain of Custo   |  |  |

P



# #21007756

Analysis Report prepared for

# Global, Inc.

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

Phone: (443) 691-0455

**20-064** IAQ Reinspection Lamont 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 2 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..

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.

John N. Hoyces

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



EPA Laboratory ID: VA01419







DPH License: #PH-0198

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MICROBIAL CONSULTING

### 20-064 IAQ Reinspection Lamont ES

# #21007756

SOP - HMC#101

| Sample Number           | 1                        | 0                      | 1          | 2                             | 0                      | 2              |           |                  |              |          |              |           |
|-------------------------|--------------------------|------------------------|------------|-------------------------------|------------------------|----------------|-----------|------------------|--------------|----------|--------------|-----------|
| Sample Name             | Ambient                  |                        | Room 9     |                               |                        |                |           |                  |              |          |              |           |
| Sample Volume           | 75.00 liter              |                        |            | 75.00 liter                   |                        |                |           |                  |              | -        |              |           |
| Reporting Limit         | 13 spores/m <sup>3</sup> |                        |            | 13 spores/m <sup>3</sup>      |                        |                |           |                  |              |          |              |           |
| Background              | 2                        |                        |            | 2                             |                        |                |           |                  |              | -        |              |           |
| Fragments               | ND                       |                        |            | ND                            |                        |                |           |                  |              | -        |              |           |
|                         |                          |                        |            |                               |                        |                |           |                  |              |          |              |           |
|                         |                          |                        |            |                               |                        |                |           |                  |              |          |              |           |
| Organism                | Raw Count                | Count / m <sup>3</sup> | % of Total | Raw Count                     | Count / m <sup>3</sup> | % of Total     |           |                  |              |          |              |           |
| Alternaria              |                          |                        |            |                               |                        |                |           |                  |              |          |              |           |
| Ascospores              | 3                        | 40                     | 60.0%      | 1                             | 13                     | 100.0%         |           |                  |              |          |              |           |
| Aspergillus Penicillium |                          |                        |            |                               |                        |                |           |                  |              |          |              |           |
| Basidiospores           | 2                        | 27                     | 40.0%      |                               |                        |                |           |                  |              |          |              |           |
| Bipolaris Drechslera    |                          |                        |            |                               |                        |                |           |                  |              |          |              |           |
| Chaetomium              |                          |                        |            |                               |                        |                |           |                  |              |          |              |           |
| Cladosporium            |                          |                        |            |                               |                        |                |           |                  |              |          |              |           |
| Curvularia              |                          |                        |            |                               |                        |                |           |                  |              |          |              |           |
| Epicoccum               |                          |                        |            |                               |                        |                |           |                  |              |          |              |           |
| Fusarium                |                          |                        |            |                               |                        |                |           |                  |              |          |              |           |
| Memnoniella             |                          |                        |            |                               |                        |                |           |                  |              |          |              |           |
| Myxomycetes             |                          |                        |            |                               |                        |                |           |                  |              |          |              |           |
| Pithomyces              |                          |                        |            |                               |                        |                |           |                  |              |          |              |           |
| Stachybotrys            |                          |                        |            |                               |                        |                |           |                  |              |          |              |           |
| Stemphylium             |                          |                        |            |                               |                        |                |           |                  |              |          |              |           |
| Torula                  |                          |                        |            |                               |                        |                |           |                  |              |          |              |           |
| Ulocladium              |                          |                        |            |                               |                        |                |           |                  |              |          |              |           |
|                         |                          |                        |            |                               |                        |                |           |                  |              |          |              |           |
|                         |                          |                        |            |                               |                        |                |           |                  |              |          |              |           |
| Total                   | 5                        | 67                     | 100%       | 1                             | 13                     | 100%           |           |                  |              |          |              |           |
| Water Damage Indicato   | r                        | Common Allergen        |            | Slightly Higher than Baseline |                        | than Baseline  | Signif    | icantly Higher t | han Baseline |          | Ratio Abnorm | ality     |
|                         |                          | Collected:Mar §        | 5, 2021    | Rece                          | eived: Mar 8, 20       | 21             | Reported: | Mar 8, 2021      |              |          |              |           |
|                         | <b>FS</b>                | Project Analyst:       | 0          |                               | Λ                      | Date:          |           |                  | 0, 1         | 0 11     | Date:        |           |
|                         |                          | Ramesh Poluri,         | PhD P. R   | Camel                         | Shy                    | 03 - 08 - 2021 | Steve Ha  | yes, BSMT        | teahen 1     | 7. Hoyes | 03 -         | 08 - 2021 |



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| 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:   |
|                                    | <ul> <li>NBD: No background detected due to possible pump or cassette malfunction. Recollect sample. (Field Blanks will display NBD)</li> <li>1: &lt;5% of field occluded. No spores will be uncountable.</li> <li>2: 5-25% of field occluded.</li> <li>3: 25-75% of field occluded.</li> <li>4: 75-90% of field occluded.</li> <li>5: &gt;90% of field occluded. Suggested recollection of sample.</li> </ul>  |
| 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<br>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<br>present outdoors at any given time. There will always be some mold spores present in "normal" indoor environments. The purpose of sampling and counting<br>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.<br>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<br>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.<br>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 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.  |



| Shane Prabuddha<br>Global, Inc.<br>1818 New York Ave. Suite 217<br>Washington, DC, 20002<br>(443) 691-0455 |          | 20-064 #21007756<br>IAQ Reinspection<br>Lamont ES 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<br>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.  |  |  |  |  |  |
| 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.   |  |  |  |  |  |
|  |          |   |  |  |  |  |  |



| Company: <u>Global</u> , Inc.<br>Address: <u>1818 New York Avenue</u> , <u>Svit</u> 217<br><u>Washington</u> , Dc 20002. |  |  |                            |                              |             |            |                                     | SHIP: FEDEX - ENV 50<br>DATE: 03-08-2021<br>8160 4410 5689<br>21007756 |                          |                       |  |  |
|--|--|--|----------------------------|------------------------------|-------------|------------|-------------------------------------|--|--------------------------|-----------------------|--|--|
| Job Number: 20-  |  |  | Job Name: IAQ Reinspection |                              |             |            | 21007756                            |  |                          |                       |  |  |
| Collector: Shane   |  |  |                            | lmont ED                     |             | -          |                                     | 691-0455   | Email: Cha               | nnab@globalincusa.net |  |  |
| Date Collected: O  |  |  |                            |                              |             |            | Note:                               |  |                          |                       |  |  |
| Analysis Typ   | S  | Identificati   | an 9 Enumerati             | Analysis Description         |             | Turnaround | 1:0                                 |  | Nedia Types              |                       |  |  |
| Spore Trap   | 5<br>S+                                    |  |                            | ander, Fiber, and Pollen cou | unto        |            | 24 Hour                             |  | tes, Impact Slide        |                       |  |  |
| Direct ID  | 5+<br>D                                    |  |                            | neration of spores and myc   |             |            | 24 Hour                             |  | tes, Impact Slide        |                       |  |  |
| Direct ID  | D+   |  |                            | Quantitative spore count     | enum        |            | 24 Hour<br>24 Hour                  |  | ape, Swab, Bulk,         |                       |  |  |
| Culture  | C1   |  |                            | on of Mold only              |             |            | 7 Day                               |  | ape, Swab, Bulk,         |                       |  |  |
| Culture  | C1<br>C2                                   |  |                            | on of Bacteria only          | -           |            | 4 Day                               |  | gar Plate, Swab,         |                       |  |  |
|  | C2<br>C3                                   | the second s |                            | on of Mold and Bacteria      |             |            | 7 Day                               |  |                          |                       |  |  |
|  | C5   | 122  | creen for Sewag            |                              |             |            | 2 Day                               |  |                          |                       |  |  |
| Particle   | ТРА  |  |                            | ID & Count (Does Not Inclu   | de Mold)    |            | 24 Hour                             | Air Cassettes, Impact Slides, Bio-Tape                                 |                          |                       |  |  |
| # Num  | ber  |  | Sample Anal                |                              |             |            | and the second second second second |  |                          |                       |  |  |
| 1 01   |  |  | Ambient                    |                              |             | 5          |                                     |  | 53 RH! 23 CO2 : 412 CO'O |                       |  |  |
| 2 02   |  | Room 9   |                            |                              | 5           | 75L        | 1:49                                | RH 34  | CO2:407 CO! O            |                       |  |  |
| 3  |  | f  | June                       |                              |             |            |                                     |  |                          |                       |  |  |
| 4  |  |  |                            |                              |             |            |                                     |  |                          |                       |  |  |
| 5  |  |  |                            |                              |             | -          |                                     |  |                          |                       |  |  |
| 6  |  |  |                            |                              |             |            |                                     |  |                          |                       |  |  |
| 7  |  |  |                            |                              |             |            |                                     |  |                          |                       |  |  |
| 8  |  |  |                            |                              |             |            |                                     |  |                          |                       |  |  |
| 9  |  |  |                            |                              |             |            |                                     |  |                          |                       |  |  |
| 10   |  |  |                            |                              |             |            |                                     |  |                          |                       |  |  |
| 11   |  |  |                            |                              |             |            |                                     |  |                          |                       |  |  |
| 12   |  |  |                            | /                            |             |            |                                     |  | •                        |                       |  |  |
| 13   |  |  |                            |                              |             |            |                                     |  |                          |                       |  |  |
| 14   |  |  |                            |                              |             |            |                                     |  |                          |                       |  |  |
| 15   |  |  |                            |                              |             |            |                                     |  |                          |                       |  |  |
| 16   |  |  |                            | 1 1                          |             |            |                                     | 110  |                          | 0 1/2 /               |  |  |
| Released by: Sha<br>Hayes Microbial Consultin  | and the second second second second second |  | ndary Terrace, Su          | Date: 03 05 2                | (804) 562-3 |            | ontact@hayesmicrob                  | ial com  |                          | Date: J. J. 2         |  |  |

Chain of Custody