



Soil and Land Use Technology, Inc.
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Telephone: (301) 595-3783
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June 26, 2019

Prince George's County Public School (PGCPS)
Environmental Safety Office
13306 Old Marlboro Pike
Upper Marlboro, MD 20772

Attention: Alex Baylor
alex.baylor@pgcps.org

Subject: Indoor Air Quality Survey
Duval High School
9880 Good Luck Road
Lanham, MD 20706

Mr. Baylor:

On June 2, 2019, a Soil and Land Use Technology, Inc. (SaLUT) Industrial Hygienist conducted an indoor air quality (IAQ) evaluation at Duval High School, a property maintained by Prince George's County Public Schools (PGCPS) located at 9880 Good Luck Rd., Lanham, MD 20706. The inspection was performed in accordance with PGCPS contract number IFB 022-19.

Methodology

The IAQ evaluation conducted by SaLUT included a visual assessment, IAQ instrumentation screening, and a collection of interior air samples for mold in representative locations throughout the building. Additionally, one building exterior environmental air sample was taken for comparison.

Air-borne fungal spore samples were collected on *Air-O-Cell* cassettes using a Buck BioAire calibrated pump. The air samples were taken between three and five feet from the ground. In tandem with collecting mold samples, real-time readings for carbon dioxide, carbon monoxide, temperature and relative humidity were collected using a Fluke 975 Air Meter in representative areas within the facility. A MiniRAE 3000-photoionization detector (PID) was used to measure total volatile organic compounds (TVOC).

Respirable particulate in air (size classes PM_{2.5}μ and PM₁₀μ) was measured using the Particles Plus 8306 Handheld Particle Counter which was calibrated prior to sampling. The fungal spore air samples were delivered to EMSL Analytical, Inc. of Beltsville,

Maryland for analysis. Fungal spores and particulates in air samples were analyzed by Optical Microscopy (methods EMSL 05-TP-003 and ASTM D7391). The sample chain-of-custody and laboratory reports are attached.

Observations

The table below summarizes the main observations from the IAQ survey at Duval High School, visited on June 2, 2019.

Table 1-Observations

| Location | Summary of Observations 6-2-2019 |
|-------------------------------------|---|
| Classroom 41B | 2' x 4' ceiling tile and 1'x1' tile floor; No visual signs of microbial growth, and no odor; No visible dust on floor/ other furniture surfaces. |
| Classroom 51 | 2' x 4' ceiling tile and 1'x1' tile floor; No visual signs of microbial growth, and no odor; No visible dust on floor/ other furniture surfaces. |
| Classroom 56 | 2' x 4' ceiling tile and 1'x1' tile floor; No visual signs of microbial growth, and no odor; No visible dust on floor/ other furniture surfaces. |
| Classroom 60 | 2' x 4' ceiling tile and 1'x1' tile floor; No visual signs of microbial growth, and no odor; No visible dust on floor/ other furniture surfaces. |
| Classroom 61 | 2' x 4' ceiling tile and 1'x1' tile floor; No visual signs of microbial growth, and no odor; No visible dust on floor/ other furniture surfaces. |
| Classroom 102 | 2' x 4' ceiling tiles and 1'x1' tile floor; No visual signs of microbial growth, and no odor; No visible dust on floor/ other furniture surfaces. |
| Classroom 108 | 2' x 4' ceiling tile and 1'x1' tile floor; No visual signs of microbial growth, and no odor; No visible dust on floor/ other furniture surfaces. |
| Classroom 123 | 2' x 4' ceiling tile and 1'x1' tile floor; No visual signs of microbial growth, and no odor; No visible dust on floor/ other furniture surfaces. |
| Classroom A- 208 | 2'x4' ceiling tiles and 2'x2' tile floor; No visual signs of microbial growth, and no odor; No visible dust on floor/ other furniture surfaces. |
| Classroom A- 247 | 2'x4' ceiling tiles and 2'x2' tile floor; No visual signs of microbial growth, and no odor; No visible dust on floor/ other furniture surfaces. |
| Hallway Adjacent to Classroom A-110 | 2'x4' ceiling tiles and 1'x1' tile floor; No visual signs of microbial growth, and no odor; No visible dust on floor/ other furniture surfaces. |

| Location | Summary of Observations 6-2-2019 |
|-------------------------------------|---|
| Hallway Adjacent to Classroom A-232 | 2' x 4' ceiling tile and 1'x1' tile floor; No visual signs of microbial growth, and no odor; No visible dust on floor/other furniture surfaces. |
| Annex Office | 2' x 4' ceiling tile and 1'x1' tile floor; No visual signs of microbial growth, and no odor; No visible dust on floor/other furniture surfaces. |
| Front Entrance | 2' x 4' ceiling tile and 4" x 4" tile floor; No visual signs of microbial growth, and no odor; No visible dust on floor/other furniture surfaces. |

Measurements of Indoor Environmental Quality Parameters

Table 2 depicts a summary of average measurements of comfort parameters and respirable particulates.

Temperature

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) have published recommendations for year round acceptable temperatures in Standard 55-2010 *Thermal Environmental Conditions for Human Occupancy*. The winter comfort range is 20 to 24°C (68 to 75°F) and 23 to 26°C (73 to 79°F) is the summer comfort range. The temperature readings were within the ASHRAE recommended ranges in the representative spaces with the exception of some readings which were slightly lower than the ASHRAE comfort level.

Relative Humidity (RH)

RH is a key factor for mold growth. Mold has the potential of growing on suitable surfaces with humidity levels above 60%. ASHRAE Standard 62.1-2010 *Ventilation for Acceptable Indoor Air Quality* recommends a maximum indoor RH of 65% to preclude the likelihood of condensation on cool surfaces encouraging mold growth. The RH readings were within the ASHRAE recommended ranges in the representative areas.

Carbon Dioxide (CO₂)

Under conditions of maximum occupancy, ASHRAE Standard 62.1-2010, Appendix C, infers that the acceptable CO₂ upper limit is the prevailing outdoor CO₂ concentration plus 700 parts per million (ppm). On the day of the space evaluation, the outdoor (building exterior) CO₂ concentration was approximately 518 ppm therefore indoor concentrations should not exceed approximately 1,218 ppm (700 + 518). The maximum average interior CO₂ concentration detected was 544 ppm in Front Entrance, a range within the ASHRAE recommendations, per Table 2 below.

Carbon Monoxide (CO)

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 major sources of CO. All registered CO concentrations were below the EPA National Ambient Air Quality Standard (NAAQS) of 9 ppm, per Table 2 below.

Respirable Particulates

Direct reading particulate monitoring did not identify a condition of concern. Particulate concentrations for two mass ranges with EPA ambient air quality guidelines (PM_{2.5} and PM₁₀) were below their respective NAAQS levels. On June 2, 2019, the highest average PM_{2.5} concentration during the monitoring period was 0.003 mg/m³ (3 µg/m³) in hallway adjacent to Classroom 232. This is compared to the NAAQS primary standard for PM_{2.5} of 12 µg/m³ annual mean. The highest average PM₁₀ concentration during the same period was 0.041 mg/m³ (41 µg/m³) in hallway adjacent to Classroom 232. This is compared to NAAQS standard for PM₁₀ of 150 µg/m³ 24 hour average.

Total Volatile Organic Chemicals (TVOC)

LEED's standard of 500 µg/m³ for TVOC (ANSI/ASHRAE Standard 62.1-2010) concentrations per the instrument's level of detection for a healthy commercial building were used as the standard for TVOCs for this survey. Concentrations below this value can be considered as "background levels" and, at such low concentrations, they are extremely unlikely to cause any adverse health conditions to the occupants. Generally, values below 3000 µg/m³ are unlikely to cause more than mild irritation or headaches, but to date no recognized industry standard has been established for TVOCs. Perfumes, colognes, and air fresheners as well as certain cleaning chemicals can all cause temporary increases in TVOC readings. TVOC readings cannot be used to establish OSHA limits on specific VOCs or be attributed to specific compounds.

**Table 2: Duval High School Instrumental Screening Levels
June 2, 2019**

| Sample Location | Temp °F | RH% | CO ppm | CO ₂ ppm | PM 2.5 mg/m ³ | PM 10 mg/m ³ | TVOC ppm |
|-----------------------------------|-----------------------|----------------|------------|------------------------|-----------------------------|----------------------------|-------------|
| Standards | ASHRAE 73 to 79°F* | ASHRAE <65% | NAAQS 9 | ASHRAE 1,218 | NAAQS 0.012 | NAAQS 0.150 | 1.0 |
| Classroom 41B | 77.9 | 42.1 | 0 | 466 | 0.001 | 0.019 | 0 |
| Classroom 51 | 71.6 | 53.0 | 0 | 475 | 0.002 | 0.029 | 0 |
| Classroom 56 | 69.8 | 57.0 | 0 | 440 | 0.002 | 0.031 | 0 |
| Classroom 60 | 77.9 | 50.3 | 0 | 476 | 0.001 | 0.035 | 0 |
| Classroom 61 | 76.1 | 50.1 | 0 | 450 | 0.001 | 0.021 | 0 |
| Classroom 102 | 79.0 | 52.1 | 0 | 495 | 0.002 | 0.028 | 0 |
| Classroom 108 | 78.6 | 46.4 | 0 | 507 | 0.002 | 0.021 | 0 |
| Classroom 123 | 76.1 | 38.9 | 0 | 467 | 0.001 | 0.026 | 0 |
| Classroom 208 | 72.5 | 56.3 | 0 | 459 | 0.001 | 0.028 | 0 |
| Classroom 247 | 71.8 | 54.7 | 0 | 439 | 0.001 | 0.031 | 0.1 |
| Hallway Adjacent to Classroom 110 | 73.4 | 56.8 | 0 | 491 | 0.001 | 0.018 | 0 |
| Hallway Adjacent to Classroom 232 | 74.5 | 53.3 | 0 | 443 | 0.003 | 0.041 | 0.1 |
| Annex Office | 76.1 | 57.2 | 0 | 492 | 0.002 | 0.021 | 0 |
| Front Entrance | 78.8 | 46.4 | 0 | 544 | 0.002 | 0.039 | 0 |
| Outside Exterior EV Sample | 84.2 | 44.9 | 0 | 518 | 0.003 | 0.048 | 0 |

PM - Particulate Matter size
 °F - Degrees Fahrenheit
 CO - Carbon Monoxide
 ppm - parts per million

µg/m³ - micrograms per cubic meter
 RH% - % Relative Humidity
 CO₂ - Carbon Dioxide
 * - Summer Comfort Range

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 population profile should mimic what is encountered outdoors and the concentrations should be below the outdoor (building exterior) environmental sample levels.

Tables 3 summarizes airborne mold spore sampling results and locations. On June 2, 2019, total mold counts in representative samples (spore count/m³ of air) in all the areas inspected were lower than the outdoor concentrations. Laboratory analysis follows this report (see attachment).

**Table 3: Duval High School - Measurements of Mold-in-Air Samples
June 2, 2019**

| Spore Types | Classroom 41B | Classroom 51 | Classroom 56 | Classroom 60 |
|----------------------------------|---------------|--------------|--------------|--------------|
| <i>Alternaria (Ulocladium)</i> | - | - | - | - |
| <i>Ascospores</i> | 300 | - | - | 90 |
| <i>Aspergillus/Penicillium</i> | 40 | - | - | 40 |
| <i>Basidiospores</i> | 520 | - | 90 | 300 |
| <i>Bipolaris++</i> | - | - | - | - |
| <i>Chaetomium</i> | - | - | - | - |
| <i>Cladosporium</i> | 40 | - | - | 40 |
| <i>Curvularia</i> | - | - | - | - |
| <i>Epicoccum</i> | - | - | - | - |
| <i>Fusarium</i> | - | - | - | - |
| <i>Ganoderma</i> | - | - | - | - |
| <i>Myxomycetes++</i> | - | - | - | - |
| <i>Pithomyces++</i> | - | - | - | - |
| <i>Rust</i> | - | - | - | - |
| <i>Scopulariopsis/Microascus</i> | - | - | - | - |
| <i>Stachybotrys/Memmoniella</i> | - | - | - | - |
| <i>Unidentifiable Spores</i> | - | - | - | - |
| <i>Zygomycetes</i> | - | - | - | - |
| <i>Cercospora++</i> | - | - | - | - |
| <i>Oidium</i> | - | - | - | - |
| <i>Hyphal Fragment</i> | - | - | - | - |
| <i>Insect Fragment</i> | - | - | - | - |
| <i>Pollen</i> | - | - | - | - |
| Total Fungi | 900 | 0 | 90 | 470 |

*Spore Counts per cubic meter of air (Counts/m³).

++Includes other spores with similar morphology.

**Table 3: Duval High School - Measurements of Mold-in-Air Samples Continued
June 2, 2019**

| Spore Types | Classroom 61 | Classroom 102 | Classroom 108 | Classroom 123 |
|----------------------------------|--------------|---------------|---------------|---------------|
| <i>Alternaria (Ulocladium)</i> | - | - | - | - |
| <i>Ascospores</i> | 40 | 90 | 100 | 40 |
| <i>Aspergillus/Penicillium</i> | - | - | 40 | - |
| <i>Basidiospores</i> | 870 | 300 | 440 | 40 |
| <i>Bipolaris</i> ++ | - | - | - | - |
| <i>Chaetomium</i> | - | - | - | - |
| <i>Cladosporium</i> | 200 | 90 | - | - |
| <i>Curvularia</i> | - | - | - | - |
| <i>Epicoccum</i> | - | - | - | - |
| <i>Fusarium</i> | - | - | - | - |
| <i>Ganoderma</i> | - | - | - | - |
| <i>Myxomycetes</i> ++ | - | - | - | - |
| <i>Pithomyces</i> ++ | - | - | - | - |
| <i>Rust</i> | - | - | - | - |
| <i>Scopulariopsis/Microascus</i> | - | - | - | - |
| <i>Stachybotrys/Memnoniella</i> | - | - | - | - |
| <i>Unidentifiable Spores</i> | - | - | - | - |
| <i>Zygomycetes</i> | - | - | - | - |
| <i>Cercospora</i> ++ | - | - | - | - |
| <i>Oidium</i> | - | - | - | - |
| <i>Hyphal Fragment</i> | - | - | - | - |
| <i>Insect Fragment</i> | - | - | - | - |
| <i>Pollen</i> | - | - | - | 10* |
| Total Fungi | 1,110 | 480 | 580 | 80 |

*Spore Counts per cubic meter of air (Counts/m³).
 ++Includes other spores with similar morphology.

**Table 3: Duval High School - Measurements of Mold-in-Air Samples Continued
June 2, 2019**

| Spore Types | Classroom A208 | Classroom A247 | Classroom A 110 Hallway | Hallway Adjacent to A232 |
|----------------------------------|----------------|----------------|----------------------------|-----------------------------|
| <i>Alternaria (Ulocladium)</i> | - | - | - | - |
| <i>Ascospores</i> | - | - | 40 | 40 |
| <i>Aspergillus/Penicillium</i> | - | - | - | - |
| <i>Basidiospores</i> | 90 | 40 | 200 | 200 |
| <i>Bipolaris++</i> | - | - | - | - |
| <i>Chaetomium</i> | - | - | - | - |
| <i>Cladosporium</i> | 100 | - | 90 | 100 |
| <i>Curvularia</i> | - | - | - | - |
| <i>Epicoccum</i> | - | - | 40 | - |
| <i>Fusarium</i> | - | - | - | - |
| <i>Ganoderma</i> | - | - | - | - |
| <i>Myxomycetes++</i> | - | - | - | - |
| <i>Pithomyces++</i> | - | - | - | - |
| <i>Rust</i> | - | - | - | - |
| <i>Scopulariopsis/Microascus</i> | - | - | - | - |
| <i>Stachybotrys/Memnoniella</i> | - | - | - | - |
| <i>Unidentifiable Spores</i> | - | - | - | - |
| <i>Zygomycetes</i> | - | - | - | - |
| <i>Cercospora++</i> | - | - | - | - |
| <i>Oidium</i> | - | - | - | - |
| <i>Hyphal Fragment</i> | - | - | - | - |
| <i>Insect Fragment</i> | - | - | - | - |
| <i>Pollen</i> | - | - | - | - |
| Total Fungi | 190 | 40 | 370 | 340 |

*Spore Counts per cubic meter of air (Counts/m³).
 ++Includes other spores with similar morphology.

**Table 3: Duval High School - Measurements of Mold-in-Air Samples Continued
June 2, 2019**

| Spore Types | Main Entrance | Annex Office | Outside Exterior EV Sample | Field Blank |
|----------------------------------|---------------|--------------|----------------------------|-----------------|
| <i>Alternaria (Ulocladium)</i> | - | - | - | - |
| <i>Ascospores</i> | 90 | - | 1400 | - |
| <i>Aspergillus/Penicillium</i> | 90 | - | 90 | - |
| <i>Basidiospores</i> | 610 | 40 | 4300 | - |
| <i>Bipolaris++</i> | - | - | - | - |
| <i>Chaetomium</i> | - | - | - | - |
| <i>Cladosporium</i> | 90 | - | 610 | - |
| <i>Curvularia</i> | - | - | - | - |
| <i>Epicoccum</i> | - | - | - | - |
| <i>Fusarium</i> | - | - | - | - |
| <i>Ganoderma</i> | - | - | 90 | - |
| <i>Myxomycetes++</i> | - | - | 80* | - |
| <i>Pithomyces++</i> | - | - | - | - |
| <i>Rust</i> | - | - | 10* | - |
| <i>Scopulariopsis/Microascus</i> | - | - | - | - |
| <i>Stachybotrys/Memmoniella</i> | - | - | - | - |
| <i>Unidentifiable Spores</i> | - | - | 40 | - |
| <i>Zygomycetes</i> | - | - | - | - |
| <i>Cercospora++</i> | - | - | 10* | - |
| <i>Oidium</i> | - | 30* | - | - |
| <i>Hyphal Fragment</i> | - | 40 | - | - |
| <i>Insect Fragment</i> | - | - | - | - |
| <i>Pollen</i> | - | 30* | - | - |
| Total Fungi | 880 | 70 | 6,630 | No Trace |

*Spore Counts per cubic meter of air (Counts/m³).
 ++Includes other spores with similar morphology.

Findings and Conclusions

The comfort parameters (i.e., temperature, RH, CO₂, and CO levels) and respirable particulates in the representative areas conform to ASHRAE and/or NAAQS guidelines with the exception of some temperature readings which were slightly lower than the ASHRAE comfort level. On June 2, 2019, total mold counts in representative area samples (spore count/m³ of air) in all the areas inspected were lower than the outdoor concentrations, indicating no amplified mold growth.

Recommendations

Based on the observations, mold spore results, and the results of the indoor air quality parameters tested, we have no recommendations at this time.



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Thank you for the opportunity to provide industrial hygiene services for PGCPS. If you have any questions, please contact me at 301.595.3783.

Sincerely,

A handwritten signature in black ink that reads 'Jayatilake'.

Chaminda Jayatilake, PE, CIH, CSP, CHMM
Certified Industrial Hygienist
Soil and Land Use Technology Inc. (SaLUT)

Attachment

Attachment - Mold Spore Sample Analytical Results and Chain-of-Custody Forms

Attachment

Mold Spore Sample Analytical Results and Chain-of-Custody Forms



EMSL Analytical, Inc.

528 Mineola Avenue Carle Place, NY 11514
Tel/Fax: (516) 997-7251 / (516) 997-7528
<http://www.EMSL.com> / carleplacelab@emsl.com

EMSL Order: 061910932
Customer ID: SALU50
Customer PO:
Project ID:

Attn: Indika Jayatilake
SaLUT
1818 New York Avenue, NE
Suite 218A
Washington, DC 20002
Project: PGCPs IAQ/19-035 Duval HS

Phone: (301) 595-3783
Fax: (301) 595-3787
Collected: 06/02/2019
Received: 06/03/2019
Analyzed: 06/06/2019

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

| Lab Sample Number: | 061910932-0001 | | | 061910932-0002 | | | 061910932-0003 | | |
|---------------------------|----------------|------------|------------|----------------|-----------|------------|----------------|------------|------------|
| Client Sample ID: | 28398655 | | | 28398873 | | | 28398893 | | |
| Volume (L): | 75 | | | 75 | | | 75 | | |
| Sample Location | Classroom 102 | | | Classroom 56 | | | Classroom A208 | | |
| Spore Types | Raw Count | Count/m³ | % of Total | Raw Count | Count/m³ | % of Total | Raw Count | Count/m³ | % of Total |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - |
| Ascospores | 2 | 90 | 18.8 | - | - | - | - | - | - |
| Aspergillus/Penicillium | - | - | - | - | - | - | - | - | - |
| Basidiospores | 6 | 300 | 62.5 | 2 | 90 | 100 | 2 | 90 | 47.4 |
| Bipolaris++ | - | - | - | - | - | - | - | - | - |
| Chaetomium | - | - | - | - | - | - | - | - | - |
| Cladosporium | 2 | 90 | 18.8 | - | - | - | 3 | 100 | 52.6 |
| Curvularia | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | - | - | - |
| Fusarium | - | - | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | - | - | - |
| Myxomycetes++ | - | - | - | - | - | - | - | - | - |
| Pithomyces++ | - | - | - | - | - | - | - | - | - |
| Rust | - | - | - | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - |
| Cercospora++ | - | - | - | - | - | - | - | - | - |
| Oidium | - | - | - | - | - | - | - | - | - |
| Total Fungi | 10 | 480 | 100 | 2 | 90 | 100 | 5 | 190 | 100 |
| Hyphal Fragment | - | - | - | - | - | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - | - | - |
| Pollen | - | - | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 44 | - | - | 44 | - | - | 44 | - |
| Analyt. Sensitivity 300x | - | 13* | - | - | 13* | - | - | 13* | - |
| Skin Fragments (1-4) | - | 1 | - | - | 1 | - | - | 1 | - |
| Fibrous Particulate (1-4) | - | 1 | - | - | 1 | - | - | 1 | - |
| Background (1-5) | - | 2 | - | - | 1 | - | - | 1 | - |

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.


Jeffrey Lau, Microbiology Laboratory Manager
or other approved signatory

High levels of background particulate can obscure spores and other particulates leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. *** Denotes particles found at 300X. "-" Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Carle Place, NY AIHA-LAP, LLC--EMLAP Accredited #102344

Initial report from: 06/09/2019 10:29:40

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com



EMSL Analytical, Inc.

528 Mineola Avenue Carle Place, NY 11514
Tel/Fax: (516) 997-7251 / (516) 997-7528
<http://www.EMSL.com> / carleplacelab@emsl.com

EMSL Order: 061910932
Customer ID: SALU50
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Attn: Indika Jayatilake
SaLUT
1818 New York Avenue, NE
Suite 218A
Washington, DC 20002
Project: PGCPs IAQ/19-035 Duval HS

Phone: (301) 595-3783
Fax: (301) 595-3787
Collected: 06/02/2019
Received: 06/03/2019
Analyzed: 06/06/2019

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

| Lab Sample Number: | 061910932-0004 | | | 061910932-0005 | | | 061910932-0006 | | |
|---------------------------|----------------|-----------|------------|----------------|------------|------------|----------------|-------------|------------|
| Client Sample ID: | 28398693 | | | 28398870 | | | 28398880 | | |
| Volume (L): | 75 | | | 75 | | | 75 | | |
| Sample Location | Classroom 123 | | | Classroom 60 | | | Classroom 61 | | |
| Spore Types | Raw Count | Count/m³ | % of Total | Raw Count | Count/m³ | % of Total | Raw Count | Count/m³ | % of Total |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - |
| Ascospores | 1 | 40 | 50 | 2 | 90 | 19.1 | 1 | 40 | 3.6 |
| Aspergillus/Penicillium | - | - | - | 1 | 40 | 8.5 | - | - | - |
| Basidiospores | 1 | 40 | 50 | 7 | 300 | 63.8 | 20 | 870 | 78.4 |
| Bipolaris++ | - | - | - | - | - | - | - | - | - |
| Chaetomium | - | - | - | - | - | - | - | - | - |
| Cladosporium | - | - | - | 1 | 40 | 8.5 | 4 | 200 | 18 |
| Curvularia | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | - | - | - |
| Fusarium | - | - | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | - | - | - |
| Myxomycetes++ | - | - | - | - | - | - | - | - | - |
| Pithomyces++ | - | - | - | - | - | - | - | - | - |
| Rust | - | - | - | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - |
| Cercospora++ | - | - | - | - | - | - | - | - | - |
| Oidium | - | - | - | - | - | - | - | - | - |
| Total Fungi | 2 | 80 | 100 | 11 | 470 | 100 | 25 | 1110 | 100 |
| Hyphal Fragment | - | - | - | - | - | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - | - | - |
| Pollen | 1* | 10* | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 44 | - | - | 44 | - | - | 44 | - |
| Analyt. Sensitivity 300x | - | 13* | - | - | 13* | - | - | 13* | - |
| Skin Fragments (1-4) | - | 1 | - | - | 1 | - | - | 1 | - |
| Fibrous Particulate (1-4) | - | 1 | - | - | 1 | - | - | 1 | - |
| Background (1-5) | - | 1 | - | - | 1 | - | - | 1 | - |

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.


Jeffrey Lau, Microbiology Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Carle Place, NY AIHA-LAP, LLC--EMLAP Accredited #102344

Initial report from: 06/09/2019 10:29:40

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com



EMSL Analytical, Inc.

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EMSL Order: 061910932
Customer ID: SALU50
Customer PO:
Project ID:

Attn: Indika Jayatilake
SaLUT
1818 New York Avenue, NE
Suite 218A
Washington, DC 20002
Project: PGCPs IAQ/19-035 Duval HS

Phone: (301) 595-3783
Fax: (301) 595-3787
Collected: 06/02/2019
Received: 06/03/2019
Analyzed: 06/06/2019

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

| Lab Sample Number: Client Sample ID: Volume (L): Sample Location | 061910932-0007 28398863 75 Classroom 108 | | | 061910932-0008 28398614 75 Classroom 41B | | | 061910932-0009 28398659 75 Opposite A 110 Hallway | | |
|---|---|------------|------------|---|------------|------------|--|------------|------------|
| Spore Types | Raw Count | Count/m³ | % of Total | Raw Count | Count/m³ | % of Total | Raw Count | Count/m³ | % of Total |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - |
| Ascospores | 3 | 100 | 17.2 | 6 | 300 | 33.3 | 1 | 40 | 10.8 |
| Aspergillus/Penicillium | 1 | 40 | 6.9 | 1 | 40 | 4.4 | - | - | - |
| Basidiospores | 10 | 440 | 75.9 | 12 | 520 | 57.8 | 4 | 200 | 54.1 |
| Bipolaris++ | - | - | - | - | - | - | - | - | - |
| Chaetomium | - | - | - | - | - | - | - | - | - |
| Cladosporium | - | - | - | 1 | 40 | 4.4 | 2 | 90 | 24.3 |
| Curvularia | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | 1 | 40 | 10.8 |
| Fusarium | - | - | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | - | - | - |
| Myxomycetes++ | - | - | - | - | - | - | - | - | - |
| Pithomyces++ | - | - | - | - | - | - | - | - | - |
| Rust | - | - | - | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - |
| Cercospora++ | - | - | - | - | - | - | - | - | - |
| Oidium | - | - | - | - | - | - | - | - | - |
| Total Fungi | 14 | 580 | 100 | 20 | 900 | 100 | 8 | 370 | 100 |
| Hyphal Fragment | - | - | - | - | - | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - | - | - |
| Pollen | - | - | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 44 | - | - | 44 | - | - | 44 | - |
| Analyt. Sensitivity 300x | - | 13* | - | - | 13* | - | - | 13* | - |
| Skin Fragments (1-4) | - | 1 | - | - | 1 | - | - | 1 | - |
| Fibrous Particulate (1-4) | - | 1 | - | - | 1 | - | - | 1 | - |
| Background (1-5) | - | 1 | - | - | 1 | - | - | 1 | - |

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.


Jeffrey Lau, Microbiology Laboratory Manager
or other approved signatory

High levels of background particulate can obscure spores and other particulates leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. *** Denotes particles found at 300X. "-" Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Carle Place, NY AIHA-LAP, LLC--EMLAP Accredited #102344

Initial report from: 06/09/2019 10:29:40

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Suite 218A
Washington, DC 20002
Project: PGCPs IAQ/19-035 Duval HS

Phone: (301) 595-3783
Fax: (301) 595-3787
Collected: 06/02/2019
Received: 06/03/2019
Analyzed: 06/06/2019

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

| Lab Sample Number: | 061910932-0010 | | | 061910932-0011 | | | 061910932-0012 | | |
|---------------------------|-----------------|-----------|------------|----------------|------------|------------|----------------|----------|------------|
| Client Sample ID: | 28399068 | | | 28398624 | | | 28398622 | | |
| Volume (L): | 75 | | | 75 | | | 75 | | |
| Sample Location | Classroom A 247 | | | Main Entrance | | | Classroom 51 | | |
| Spore Types | Raw Count | Count/m³ | % of Total | Raw Count | Count/m³ | % of Total | Raw Count | Count/m³ | % of Total |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - |
| Ascospores | - | - | - | 2 | 90 | 10.2 | - | - | - |
| Aspergillus/Penicillium | - | - | - | 2 | 90 | 10.2 | - | - | - |
| Basidiospores | 1 | 40 | 100 | 14 | 610 | 69.3 | - | - | - |
| Bipolaris++ | - | - | - | - | - | - | - | - | - |
| Chaetomium | - | - | - | - | - | - | - | - | - |
| Cladosporium | - | - | - | 2 | 90 | 10.2 | - | - | - |
| Curvularia | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | - | - | - |
| Fusarium | - | - | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | - | - | - |
| Myxomycetes++ | - | - | - | - | - | - | - | - | - |
| Pithomyces++ | - | - | - | - | - | - | - | - | - |
| Rust | - | - | - | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - |
| Cercospora++ | - | - | - | - | - | - | - | - | - |
| Oidium | - | - | - | - | - | - | - | - | - |
| Total Fungi | 1 | 40 | 100 | 20 | 880 | 100 | - | 0 | - |
| Hyphal Fragment | - | - | - | - | - | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - | - | - |
| Pollen | - | - | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 44 | - | - | 44 | - | - | 44 | - |
| Analyt. Sensitivity 300x | - | 13* | - | - | 13* | - | - | 13* | - |
| Skin Fragments (1-4) | - | 1 | - | - | 1 | - | - | - | - |
| Fibrous Particulate (1-4) | - | 1 | - | - | 1 | - | - | - | - |
| Background (1-5) | - | 1 | - | - | 1 | - | - | - | - |

061910932-0012 - Not Analyzed

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.


Jeffrey Lau, Microbiology Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Carle Place, NY AIHA-LAP, LLC--EMLAP Accredited #102344

Initial report from: 06/09/2019 10:29:40

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Phone: (301) 595-3783
Fax: (301) 595-3787
Collected: 06/02/2019
Received: 06/03/2019
Analyzed: 06/06/2019

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

| Lab Sample Number: Client Sample ID: Volume (L): Sample Location | 061910932-0013 28398665 75 Hallway Adj A 232 | | | 061910932-0014 28398609 75 Annex Office | | | 061910932-0015 28398881 75 Outside Exterior EV Sample | | |
|---|---|------------|------------|--|-----------|------------|--|-------------|------------|
| Spore Types | Raw Count | Count/m³ | % of Total | Raw Count | Count/m³ | % of Total | Raw Count | Count/m³ | % of Total |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - |
| Ascospores | 1 | 40 | 11.8 | - | - | - | 31 | 1400 | 21.1 |
| Aspergillus/Penicillium | - | - | - | - | - | - | 2 | 90 | 1.4 |
| Basidiospores | 4 | 200 | 58.8 | 1 | 40 | 57.1 | 98 | 4300 | 64.9 |
| Bipolaris++ | - | - | - | - | - | - | - | - | - |
| Chaetomium | - | - | - | - | - | - | - | - | - |
| Cladosporium | 3 | 100 | 29.4 | - | - | - | 14 | 610 | 9.2 |
| Curvularia | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | - | - | - |
| Fusarium | - | - | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | 2 | 90 | 1.4 |
| Myxomycetes++ | - | - | - | - | - | - | 6* | 80* | 1.2 |
| Pithomyces++ | - | - | - | - | - | - | - | - | - |
| Rust | - | - | - | - | - | - | 1* | 10* | 0.2 |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | 1 | 40 | 0.6 |
| Zygomycetes | - | - | - | - | - | - | - | - | - |
| Cercospora++ | - | - | - | - | - | - | 1* | 10* | 0.2 |
| Oidium | - | - | - | 2* | 30* | 42.9 | - | - | - |
| Total Fungi | 8 | 340 | 100 | 3 | 70 | 100 | 156 | 6630 | 100 |
| Hyphal Fragment | - | - | - | 1 | 40 | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - | - | - |
| Pollen | - | - | - | 2* | 30* | - | - | - | - |
| Analyt. Sensitivity 600x | - | 44 | - | - | 44 | - | - | 44 | - |
| Analyt. Sensitivity 300x | - | 13* | - | - | 13* | - | - | 13* | - |
| Skin Fragments (1-4) | - | 1 | - | - | 2 | - | - | 1 | - |
| Fibrous Particulate (1-4) | - | 1 | - | - | 1 | - | - | 1 | - |
| Background (1-5) | - | 1 | - | - | 1 | - | - | 1 | - |

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.


Jeffrey Lau, Microbiology Laboratory Manager
or other approved signatory

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Phone: (301) 595-3783
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Collected: 06/02/2019
Received: 06/03/2019
Analyzed: 06/06/2019

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

| | | | |
|---------------------------|------------------|-----------------|-------------------|
| Lab Sample Number: | 061910932-0016 | | |
| Client Sample ID: | 28398637 | | |
| Volume (L): | | | |
| Sample Location | Field Blank | | |
| Spore Types | Raw Count | Count/m³ | % of Total |
| Alternaria (Ulocladium) | - | - | - |
| Ascospores | - | - | - |
| Aspergillus/Penicillium | - | - | - |
| Basidiospores | - | - | - |
| Bipolaris++ | - | - | - |
| Chaetomium | - | - | - |
| Cladosporium | - | - | - |
| Curvularia | - | - | - |
| Epicoccum | - | - | - |
| Fusarium | - | - | - |
| Ganoderma | - | - | - |
| Myxomycetes++ | - | - | - |
| Pithomyces++ | - | - | - |
| Rust | - | - | - |
| Scopulariopsis/Microascus | - | - | - |
| Stachybotrys/Memnoniella | - | - | - |
| Unidentifiable Spores | - | - | - |
| Zygomycetes | - | - | - |
| Cercospora++ | - | - | - |
| Oidium | - | - | - |
| Total Fungi | - | No Trace | - |
| Hyphal Fragment | - | - | - |
| Insect Fragment | - | - | - |
| Pollen | - | - | - |
| Analyt. Sensitivity 600x | - | 0 | - |
| Analyt. Sensitivity 300x | - | 0* | - |
| Skin Fragments (1-4) | - | - | - |
| Fibrous Particulate (1-4) | - | - | - |
| Background (1-5) | - | - | - |

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.


Jeffrey Lau, Microbiology Laboratory Manager
or other approved signatory

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EMSL ANALYTICAL INC.
LABORATORY PRODUCTS + TRAINING

Microbiology Chain of Custody

EMSL Order Number (Lab Use Only):

061910932

PHONE:

FAX:

| | | | |
|--|--------------------|--|-----------------|
| Company Name: SaLUT Inc. | | EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments** | |
| Street: 1818 New York Ave NE Suite 231 | | Third Party Billing requires written authorization from third party | |
| City: Washington | State/Province: DC | Zip/Postal Code: 20002 | Country: USA |
| Report To (Name): Indika Jayatilake | | Telephone #: 301-595-3783 | |
| Email Address: ijayatilake@salutinc.com | | Fax #: | Purchase Order: |
| Project Number/Location: PGCPs IAQ/19-035 Duval HS | | Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email | |
| Location Address: 9880 Good Luck Road, Lanham MD | | Connecticut Samples: <input type="checkbox"/> Commercial <input type="checkbox"/> Residential | |
| *Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. TATs are subject to methodology requirements | | | |
| Sterile, Sodium Thiosulfate Preserved Bottle Used: <input type="checkbox"/> Biocide Used in Source (specify): <input type="checkbox"/> | | | |
| Public Water Supply Samples: <input type="checkbox"/> Note: All results may automatically be reported to DOH if required by state. | | | |

Turnaround Time (TAT) Options * - Please Check

3 Hour
 6 Hour
 24 Hour
 48 Hour
 72 Hour
 96 Hour
 1 Week
 2 Week

Microbiology Test Codes

| | | | |
|--|-------------------|--|--|
| M001 Air-O-Cell | M174 MoldSnap | M024 Pseudomonas aeruginosa (MFT*) | M115 Sewage Screen - Water (P/A****) |
| M030 Micro 5 | M032 Allergenco-D | M015 Heterotrophic Plate Count | M116 Sewage Screen - Water (MPN**) |
| M041 Fungal Direct Examination | | M017 Total Coliform & E. coli (Colilert P/A***) | M117 Sewage Screen - Swab (P/A****) |
| M169 Pollen ID & Enumeration | | M018 Total Coliform & E. coli (MFT*) | M013 Sewage Screen - Swab (MFT*) |
| M280 Dust Characterization Level-1 | | M114 Total Coliform & E. coli Enumeration (Colilert MPN**) | M133 Methicillin-resistant Staph. aureus (MRSA) |
| M281 Dust Characterization Level-2 | | M019 Fecal Coliform (MFT*) | M031 Rapid-growing non-TB Mycobacteria Detection & Enumeration |
| M005 Viable Fungi- Air Samples (Genus ID & Count) | | M020 Fecal Streptococcus (MFT*) | M014 Endotoxin Analysis |
| M006 Viable Fungi- Air Samples (Includes Penicillium, Aspergillus, Cladosporium, Stachybotrys Species ID & Count) | | M029 Enterococci (MFT*) | M044 Group Allergen (Cat, Dog, Cockroach, Dust Mite) |
| M007 Culturable fungi - Surface Samples (Genus ID & Count) | | M129 Enterococci (Enterolert P/A****) | Other See Analytical Price Guide |
| M008 Culturable fungi - Surface Samples (Includes Penicillium, Aspergillus, Cladosporium, Stachybotrys Species ID & Count) | | M180 Real Time qPCR-ERMI 36 Panel | Legionella Analysis Please use EMSL Legionella COC |
| M009 Bacteria Culture Gram Stain & Count | | M025 Sewage Screen -Water (MFT*) | |
| M010 Bacteria Count & ID - 3 Most Prominent | | | |
| M011 Bacteria Count & ID - 5 Most Prominent | | | |
| M012 Pseudomonas aeruginosa (P/A****) | | | |

*MFT= Membrane Filtration Technique
 **MPN= Most Probable Number
 ***P/A= Presence/Absence

Name of Sampler: Jude Fonseka Signature of Sampler:

| Sample # | Sample Location/Description | Sample Type | Potable/ NonPotable (only for waters) | Test Code | Volume/ Area | Date/Time Collected | Temperature (°C) (Lab Use Only) |
|----------|-----------------------------|-------------|---|-----------|--------------|---------------------|---------------------------------|
| 28398655 | Classroom 102 | Air | <input checked="" type="checkbox"/> P <input type="checkbox"/> NP | M001 | 75L | 6/2/2019 | |
| 28398873 | Classroom 56 | Air | <input checked="" type="checkbox"/> P <input type="checkbox"/> NP | M001 | 75L | 6/2/2019 | |
| 28398893 | Classroom A208 | Air | <input checked="" type="checkbox"/> P <input type="checkbox"/> NP | M001 | 75L | 6/2/2019 | |
| 28398693 | Classroom 123 | Air | <input checked="" type="checkbox"/> P <input type="checkbox"/> NP | M001 | 75L | 6/2/2019 | |
| 28398870 | Classroom 60 | Air | <input checked="" type="checkbox"/> P <input type="checkbox"/> NP | M001 | 75L | 6/2/2019 | |
| 28398880 | Classroom 61 | Air | <input checked="" type="checkbox"/> P <input type="checkbox"/> NP | M001 | 75L | 6/2/2019 | |

Client Sample # (s): - Total # of Samples: 16 Samples Received Chilled? Yes / No

Relinquished (Client): Date: Time: Received (Lab): Hawm Kamara Date: 6/3/2019 Time: 11:45

Comments/Special Instructions: Walk-In

6/6/19
Page 1 of 2

