

March 8, 2021

Mr. Alex Baylor
Environmental Specialist
Environmental Safety Office
Prince George's County Public Schools
Division of Supporting Services / Building Services
13306 Old Marlboro Pike
Upper Marlboro, MD 20772

via email: alex.baylor@pgcps.org

**RE: Indoor Air Quality (IAQ) and Mold Assessment Services
Prince George's County Public Schools (PGCPS) – Fairmont Heights High School
6501 Columbia Park Road, Landover, Maryland 20785
Contract No.: IFB 022-19: Indoor Air Quality Services at Various Locations
Tidewater Project No.: 5419-047**

Dear Mr. Baylor:

Tidewater, Inc. (Tidewater) is pleased to present this final report regarding the results of the Indoor Air Quality (IAQ) and Mold Assessment Services conducted by Tidewater at Fairmont Heights High School located at 6501 Columbia Park Road in Landover, Maryland. Tidewater's Project Manager and Certified Industrial Hygienist, Mr. Skanda Abeyesekere MS, CIH, CSP, CHMM conducted these services on January 27, 2021.

The scope of work for the IAQ assessment and mold survey included:

- Inspecting, taking direct read measurements and conducting air sampling at the following select areas of the school: Media Center, Health Center, Room B124 (Vice President /Admin), Room A135, Room D105 (Health Classroom), Cafeteria, Biology Laboratory B219, Room C211, Room A205 and the Teacher's Lounge. These areas were inspected for evidence of potential indoor air quality problems (including suspect microbial growth, water damage, chemical use/ storage, drain traps, sources of allergens/ contaminants, etc.) that may contribute to indoor air quality problems;
- Taking direct read air measurements for comfort parameters including temperature (T), relative humidity (RH), carbon dioxide (CO₂), and carbon monoxide (CO) for comparison with standards established by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Standard 62.1–2019, *Ventilation for Acceptable Indoor Air Quality*, and The United States Environmental Protection Agency (US EPA) National Ambient Air Quality Standards (NAAQS);
- Taking direct read measurements for Particulate Matter less than 10 microns (PM₁₀) for comparison with standards established by the US EPA NAAQS Final Action (December 7, 2020); and
- Air sampling for microbial spores in the above locations for total airborne fungal spore analysis.



Visual Observation

The school building was occupied by a limited number of staff, and no students were present at the time of the survey because of the on-going COVID-19 pandemic. The majority of the classrooms and other common areas inspected were vacant. The results of Tidewater’s visual inspection are presented below:

Media Center

The air conditioning system was turned on and was emitting cold air from the ceiling-mounted supply air vents at the time of the inspection. The ceiling mounted supply and return air grills appeared to be clean. No signs of ongoing water-intrusion problems or mold growth were observed. Furthermore, no notable odors were detected. The Media Center was clean and well maintained. Housekeeping was satisfactory.

Health Center (waiting Area)

No suspect mold growth nor notable odors were detected. One (1) wall-mounted fan coil unit was operating and was emitting warm air at the time of the inspection. The waiting area appeared to be clean and well maintained. Housekeeping appeared to be satisfactory.

Room B124 (VP/ Admin Office)

No signs of ongoing water-intrusion problems or suspect mold growth were observed. Furthermore, no notable odors were detected. The ceiling-mounted supply and return air grills appeared to be clean. The Room was clean and well maintained. Housekeeping was satisfactory.

Room A135 (Classroom/CRI)

No signs of ongoing water-intrusion problems or suspect mold growth were observed. Furthermore, no notable odors were detected. The ceiling-mounted supply and return air grills appeared to be clean. The Room was clean and well maintained. Housekeeping was satisfactory.

Room D105 (Health Classroom)

No suspect mold growth nor notable odors were detected. The ceiling-mounted supply and return air grills appeared to be clean and free of dust. The Room was clean and well maintained. Housekeeping was satisfactory.

Cafeteria

No signs of ongoing water-intrusion problems or suspect mold growth were observed in the cafeteria. Furthermore, no notable odors were detected. The ceiling-mounted supply grills were clean. A ceiling-mounted return air grill located at the entrance to the cafeteria contained dust and grime accumulation. The cafeteria was clean and well maintained. Housekeeping was satisfactory.

Room B219 (Biology Lab)

No signs of ongoing water-intrusion problems or suspect mold growth were observed. Furthermore, no notable odors were detected. The ceiling-mounted supply and return air grills appeared to be clean. The Biology Lab was clean and well maintained. Housekeeping was satisfactory.

Room C211

No suspect mold growth nor notable odors were detected. The ceiling-mounted supply and return air grills appeared to be clean. Room C211 was clean and well maintained.

Room A205

No signs of ongoing water-intrusion problems or suspect mold growth were observed. Furthermore, no notable odors were detected. The ceiling-mounted supply and return air grills appeared to be clean. Room A205 was clean and well maintained. Housekeeping was satisfactory.

Teacher's Lounge

No suspect mold growth nor notable odors were detected. The ceiling-mounted supply and return air grills appeared to be clean. Housekeeping was satisfactory.

Comfort Parameter Air Testing

During the IAQ assessment, Tidewater obtained temperature (T), relative humidity (RH), carbon dioxide (CO₂), and carbon monoxide (CO) measurements within select locations using a TSI VelociCalc Indoor Air Quality instrument (Model Number 9565-X, Serial Number 9565X 1945 002, Calibration Date: November 8, 2019.) Measurements were taken after allowing the instrument to become acclimated to the ambient temperature and relative humidity for approximately five (5) minutes. Measurements were taken over a 5-minute time period at each designated location and the average concentration was recorded. Samples were obtained for comparison with standards established by the American Society for Heating Refrigeration and Air Conditioning (ASHRAE) Standard 62.1 – 2019, *Ventilation for Acceptable Indoor Air Quality*. Tidewater also obtained an “outdoors background” [Exterior] measurement in front of the main entrance of the school building for comparison to the interior readings. The results of the IAQ comfort parameter monitoring are provided in Table 1, in **Attachment A**.

According to the American Society for Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) Standard 62.1 – 2019, *Ventilation for Acceptable Indoor Air Quality*, the temperature range in summer months should be maintained between 73.0°F and 79.0°F for maximum occupant comfort. The ASHRAE standard for temperature for winter months is between 68.0°F and 74.5°F. The indoor temperature levels within the assessed areas on January 27, 2021 ranged between 67.8°F and 70.3°F. The background temperature outside the building was 51.7°F. The temperature levels recorded within all area monitored were within the temperature standard of 68.0°F and 74.5°F recommended by ASHRAE for winter months. Most areas inspected were vacant at the time of the inspection. Indoor temperature levels fluctuate with the number of occupants present within the work area.

Per the same ASHRAE standard, a maximum relative humidity level of 65.0% or below is recommended to reduce the likelihood of condensation on cold surfaces. Relative humidity levels within the assessed areas on January 27, 2021 ranged between 21.1% and 24.9%. The background relative humidity level outside the building was 21.0%. The relative humidity levels in all areas assessed were below the ASHRAE recommended maximum relative humidity standard of 65.0%.

ASHRAE Standard 62.1 – 2019 recommends that indoor CO₂ levels not exceed 700 ppm above the outdoor background CO₂ level. The CO₂ levels in the assessed areas on January 27, 2021



ranged between 440 ppm and 458 ppm. The background CO₂ level outside the building was 442 ppm. The CO₂ levels within all interior locations assessed did not exceed 700 ppm above the outdoor background CO₂ level of 442 ppm.

The CO levels in all areas assessed on January 27, 2021 were below the maximum standard of 9.0 ppm recommended by the Indoor Air Quality Association (IAQA) for CO in occupied indoor environments.

Particulate Matter Less Than 10 microns (PM10)

During the assessment, Tidewater obtained particulate matter less than 10 microns (PM10) dust particulate measurements within select locations using a TSI® DUST TRAK II™ Aerosol Monitor (Model 8534, Serial Number 8534170101.) Measurements were taken after allowing the device to become acclimated to the ambient temperature and relative humidity for five (5) minutes. Measurements were taken over a 5-minute time period at each sampling location and the average concentration was recorded for comparison with standards established by the US EPA NAAQS Final Action (December 7, 2020.)

Tidewater also obtained a background exterior sample near front of the main entrance of the school building for comparison to the interior readings.

The results of the particulate matter sampling are provided in Table 2, in **Attachment A**.

Based on the EPA NAAQS for Particulate Matter, Final Action (December 7, 2020), the 24-hour primary and secondary exposure standard for particulate matter less than 10 microns (PM10) is 150.0 micrograms per cubic meter of air (µg/m³) or 0.150 milligrams per cubic meter of air (mg/m³.) The results of the PM10 analysis indicate that the average PM10 dust concentrations in all assessed areas ranged between 0.001 mg/m³ and 0.038 mg/m³. The average PM10 dust concentration in the background sample obtained outside the building was 0.003 mg/m³. The PM10 concentrations in all areas assessed were below the EPA 24-hour primary and secondary NAAQS of 0.150 mg/m³.

Spore Trap Bioaerosol Sampling

Tidewater collected spore trap air samples from the same locations where the comfort parameters were recorded. Tidewater obtained the spore trap samples using Allergenco-D cassettes affixed to a Buck BioAire™ Bioaerosol Sampling Pump (Pump Model Number B520 and Serial Number B153043) calibrated to a flow rate of 15.0 Liters per minute. Each sample was run for a period of five (5) minutes to collect a total sample volume of 75.0 liters of air. Tidewater also obtained an outdoor background sample in front of the main entrance of the school building for comparison to the interior readings. Tidewater also obtained a background exterior sample near front of the main entrance of the school building for comparison to the interior readings.

Once collected, the samples were transported to EMSL Analytical Laboratory (EMSL) located in Beltsville, Maryland for analysis via a standard turn-around time. The samples were transported following rigorous chain-of-custody guidelines to ensure proper handling and delivery of the samples. EMSL is accredited in the American Industrial Hygiene Association (AIHA) Environmental Microbiology Laboratory Accreditation Program (EMLAP) and is a successful participant in AIHA's Environmental Microbiology Proficiency Analytical Testing (EMPAT) program (Laboratory Number 102891.) The samples were analyzed via light microscopy at the standardized magnification of 600X. This technique does not allow for the differentiation between



Aspergillus and *Penicillium* spores because they are morphologically identical. Additionally, the technique does not allow for cultivation, or the identification of spores to the species level, except in a few cases.

There are no universally accepted federal or State of Maryland standards for acceptable airborne concentrations of bioaerosols in an indoor occupational environment. In general, indoor airborne concentrations should be less than that found in the outdoor air, with similar species composition. Indoor spore counts significantly greater than those identified in the outdoors environment, or the presence of large numbers of different types of spores identified in indoor versus the outdoor environments, may indicate contamination and potential indoor air quality problems.

The total mold spore counts in all assessed areas of the school ranged between “None Detect” and 180 spores/m³. The total mold spore concentration in the background sample was 160 spores/m³. The total mold spore concentrations in all interior samples (apart from sample FHHS-5) were significantly below the total mold spore concentration of the background sample (FHHS-BG.) The total mold spore concentration in sample FHHS-5 marginally exceeded the background sample concentration.

Additionally, the fungal species observed in the interior samples were consistent with those observed in the background sample, and no significant concentrations of an individual fungal species were identified in the interior samples. These results do not indicate elevated levels of airborne total fungal spores in the interior locations sampled, nor suggest the presence of potential significant sources of indoor fungi in the interior locations sampled.

The summary of the results for the spore trap sampling are provided in Table 3 in **Attachment A**. The laboratory analytical results, including speciation and chain of custody forms for the spore trap samples are included in **Attachment B**.

CONCLUSIONS

- The follow issue was identified during the visual inspections:
 - The ceiling-mounted return air grill located at the entrance to the cafeteria contained dust and grime accumulation.
- The Temperature, Relative Humidity, CO₂, CO readings and particulate matter less than 10 microns (PM10) recorded within the assessed areas were within industry standards and guidelines.
- The total mold spore concentrations in all interior locations sampled (except sample FHHS-5) were below the background sample concentration and were also consistent with those observed in the background sample. The results do not indicate elevated levels of airborne total fungal spores in the interior locations sampled.

RECOMMENDATIONS

Based on the results of our visual inspection, Tidewater proposes the following:

- The following area should be cleaned with a commercially available (EPA approved) disinfectant on a routine basis to remove dust and grime buildup.
 - The ceiling-mounted return air grill located at the entrance to the cafeteria



- Ensure the Heating Ventilation and Air Conditioning (HVAC) System supplying air to all common areas and classrooms is properly balanced per design requirements and are turned on and are operating at all times to ensure adequate ventilation throughout the classrooms and common areas before the school re-opens.
- Maintain good housekeeping practices in all common areas and classrooms. All common area and classrooms floors should be broom cleaned at the end of each day once the school re-opens for students. Furthermore, all horizontal surfaces including desktops, furniture, window sills, and light fixtures should be cleaned on a routine basis to prevent the accumulation of dust.

Qualifications

Tidewater endeavored to investigate existing conditions in select areas of Fairmont Heights High School located at 6501 Columbia Park Road, in Landover, Maryland as they pertain to indoor air quality and mold contamination. Our conclusions and recommendations are based on observations made on the day of our assessment, laboratory data from the time of the assessment, and information provided by both our Client and the area occupants. Actual conditions vary from day to day throughout the year.

Tidewater appreciates the opportunity to provide Industrial Hygiene consulting services for Prince George’s County Public Schools. Please contact us should any questions arise concerning this report or if we may be of further assistance.

Sincerely,

Tidewater, Inc.

Skanda Abeysekere, MS, CIH, CSP, CHMM
Project Manager

Jonathan N. Schatz, MS
Manager, IH Services

SA/JNS

- Attachments: **Attachment A – Summary of Comfort Parameters, PM10 Particulate Dust, and Microbial Results**
Attachment B – Laboratory Reports and Chain of Custody Forms
Attachment C – Instrument Calibration Certificates
Attachment D – Relevant Certifications
Attachment E – Floor Plan with Sampling Locations



APPENDIX A

**COMFORT PARAMETERS, PM10 PARTICULATE DUST, AND
MICROBIAL RESULTS**



| Table 1: Indoor Air Quality Comfort Parameters Fairmont Heights High School | | | | |
|--|-----------------------------|-------------------------------------|--------------------------------------|--------------------------------------|
| Location | Temperature (°F) | Carbon Dioxide (ppm) | Relative Humidity (%) | Carbon Monoxide (ppm) |
| January 27, 2021 | | | | |
| Media Center | 69.3 | 24.2 | 458 | 0.0 |
| Health Center (waiting Area) | 67.8 | 22.4 | 455 | 0.0 |
| Room B124 (VP/ Admin Office) | 68.4 | 24.9 | 449 | 0.0 |
| Room A135 (Classroom/CRI) | 69.4 | 22.4 | 441 | 0.0 |
| Room D105 (Health Classroom) | 69.8 | 22.4 | 446 | 0.0 |
| Cafeteria | 70.3 | 21.1 | 440 | 0.0 |
| Room B219 (Biology Lab) | 69.4 | 23.5 | 449 | 0.0 |
| C211 Classroom | 68.8 | 23.6 | 445 | 0.0 |
| A205 Classroom | 69.2 | 23.1 | 457 | 0.0 |
| Teacher Lounge | 69.1 | 22.8 | 456 | 0.0 |
| Background (Outdoors) | 51.7 | 21.0 | 442 | 0.0 |



| Table 2: Particulate Matter Less than 10 Microns (PM10) Fairmont Heights High School | |
|---|---|
| Location | Particulate Matter (PM10) |
| | Concentration (mg/m³) |
| January 27, 2021 | |
| Media Center | 0.038 |
| Health Center (waiting Area) | 0.004 |
| Room B124 (VP/ Admin Office) | 0.001 |
| Room A135 (Classroom/CRI) | 0.004 |
| Room D105 (Health Classroom) | 0.002 |
| Cafeteria | 0.003 |
| Room B219 (Biology Lab) | 0.003 |
| C211 Classroom | 0.002 |
| A205 Classroom | 0.002 |
| Teacher Lounge | 0.006 |
| Background (Outdoors) | 0.003 |

**Table 3: Spore Trap Sampling Results
Fairmont Heights High School****January 27, 2021**

| Sample Number | Sample Location | Sample Volume (L) | <i>Aspergillus Penicillium</i> Concentration (Counts/m³) | Total Fungi Concentration (Counts/m³) |
|----------------------|------------------------------|--------------------------|--|---|
| FHHS-1 | Media Center | 75.0 | None Detected | None Detected |
| FHHS-2 | Health Center (waiting Area) | 75.0 | None Detected | None Detected |
| FHHS-3 | Room B124 (VP/ Admin Office) | 75.0 | None Detected | 40 |
| FHHS-4 | Room A135 (Classroom/CRI) | 75.0 | None Detected | 40 |
| FHHS-5 | Room D105 (Health Classroom) | 75.0 | 80 | 180 |
| FHHS-6 | Cafeteria | 75.0 | None Detected | None Detected |
| FHHS-7 | Room B219 (Biology Lab) | 75.0 | 40 | 40 |
| FHHS-8 | C211 Classroom | 75.0 | None Detected | 40 |
| FHHS-9 | A205 Classroom | 75.0 | 40 | 80 |
| FHHS-10 | Teacher Lounge | 75.0 | None Detected | 40 |
| FHHS-BG | Background (Outdoors) | 75.0 | None detected | 160 |



APPENDIX B

LABORATORY REPORTS AND CHAIN OF CUSTODY FORMS



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-0262

<http://www.EMSL.com> / cinnmicrolab@emsl.com

EMSL Order: 372101670

Customer ID: TIDE50

Customer PO:

Project ID:

Attention: Skanda Abeyeskere
Tidewater, Inc.
6625 Selnick Drive
Suite A
Elkridge, MD 21075

Project: Fairmont Heights HS

Phone: (410) 540-8700

Fax: (410) 997-8713

Collected Date: 01/27/2021

Received Date: 02/01/2021

Analyzed Date: 02/12/2021

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

| Lab Sample Number: | 372101670-0001 | | | 372101670-0002 | | | 372101670-0003 | | |
|---------------------------|----------------|----------------------|------------|----------------|----------------------|------------|----------------|----------------------|------------|
| Client Sample ID: | FHHS-1 | | | FHHS-2 | | | FHHS-3 | | |
| Volume (L): | 75 | | | 75 | | | 75 | | |
| Sample Location: | Media Center | | | Health Center | | | B124-VP | | |
| Spore Types | Raw Count | Count/m ³ | % of Total | Raw Count | Count/m ³ | % of Total | Raw Count | Count/m ³ | % of Total |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - |
| Ascospores | - | - | - | - | - | - | - | - | - |
| Aspergillus/Penicillium | - | - | - | - | - | - | - | - | - |
| Basidiospores | - | - | - | - | - | - | 1 | 40 | 100 |
| Bipolaris++ | - | - | - | - | - | - | - | - | - |
| Chaetomium | - | - | - | - | - | - | - | - | - |
| Cladosporium | - | - | - | - | - | - | - | - | - |
| Curvularia | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | - | - | - |
| Fusarium | - | - | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | - | - | - |
| Myxomycetes++ | - | - | - | - | - | - | - | - | - |
| Pithomyces++ | - | - | - | - | - | - | - | - | - |
| Rust | - | - | - | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - |
| Total Fungi | - | None Detected | - | - | None Detected | - | 1 | 40 | 100 |
| Hyphal Fragment | 1 | 40 | - | - | - | - | - | - | - |
| Insect Fragment | - | - | - | 2 | 80 | - | - | - | - |
| Pollen | - | - | - | 1 | 40 | - | - | - | - |
| Analyt. Sensitivity 600x | - | 41 | - | - | 41 | - | - | 41 | - |
| Analyt. Sensitivity 300x | - | 13* | - | - | 13* | - | - | 13* | - |
| Skin Fragments (1-4) | - | 2 | - | - | 2 | - | - | 2 | - |
| 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.

Vincent Iuzzolino, M.S., Laboratory Director
or other Approved Signatory

No discernable field blank was submitted with this group of samples.

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. 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. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. 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.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-EMLAP Accredited #100194

Initial report from: 02/12/2021 11:44 AM

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



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6625 Selnick Drive
Suite A
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Project: Fairmont Heights HS

Phone: (410) 540-8700
Fax: (410) 997-8713
Collected Date: 01/27/2021
Received Date: 02/01/2021
Analyzed Date: 02/12/2021

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

| Lab Sample Number: | 372101670-0004 | | | 372101670-0005 | | | 372101670-0006 | | |
|---------------------------|----------------|-----------|------------|-----------------|------------|------------|-------------------|---------------|------------|
| Client Sample ID: | FHHS-4 | | | FHHS-5 | | | FHHS-6 | | |
| Volume (L): | 75 | | | 75 | | | 75 | | |
| Sample Location: | Room A-135 | | | Room D105 Heath | | | Multipurpose Room | | |
| Spore Types | Raw Count | Count/m³ | % of Total | Raw Count | Count/m³ | % of Total | Raw Count | Count/m³ | % of Total |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - |
| Ascospores | - | - | - | - | - | - | - | - | - |
| Aspergillus/Penicillium | - | - | - | 2 | 80 | 44.4 | - | - | - |
| Basidiospores | 1 | 40 | 100 | - | - | - | - | - | - |
| Bipolaris++ | - | - | - | - | - | - | - | - | - |
| Chaetomium | - | - | - | - | - | - | - | - | - |
| Cladosporium | - | - | - | 3 | 100 | 55.6 | - | - | - |
| Curvularia | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | - | - | - |
| Fusarium | - | - | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | - | - | - |
| Myxomycetes++ | - | - | - | - | - | - | - | - | - |
| Pithomyces++ | - | - | - | - | - | - | - | - | - |
| Rust | - | - | - | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - |
| Total Fungi | 1 | 40 | 100 | 5 | 180 | 100 | - | None Detected | - |
| Hyphal Fragment | - | - | - | 1 | 40 | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - | - | - |
| Pollen | - | - | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 41 | - | - | 41 | - | - | 41 | - |
| 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.

Vincent Iuzzolino, M.S., Laboratory Director
or other Approved Signatory

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

| Lab Sample Number: | 372101670-0007 | | | 372101670-0008 | | | 372101670-0009 | | |
|---------------------------|----------------|----------------------|------------|----------------|----------------------|------------|----------------|----------------------|------------|
| Client Sample ID: | FHHS-7 | | | FHHS-8 | | | FHHS-9 | | |
| Volume (L): | 75 | | | 75 | | | 75 | | |
| Sample Location: | 2nd Fl B-219 | | | 2nd Fl C-211 | | | 2nd Fl A-205 | | |
| Spore Types | Raw Count | Count/m ³ | % of Total | Raw Count | Count/m ³ | % of Total | Raw Count | Count/m ³ | % of Total |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - | - | - |
| Ascospores | - | - | - | - | - | - | - | - | - |
| Aspergillus/Penicillium | 1 | 40 | 100 | - | - | - | 1 | 40 | 50 |
| Basidiospores | - | - | - | - | - | - | 1 | 40 | 50 |
| Bipolaris++ | - | - | - | - | - | - | - | - | - |
| Chaetomium | - | - | - | - | - | - | - | - | - |
| Cladosporium | - | - | - | - | - | - | - | - | - |
| Curvularia | - | - | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | - | - | - |
| Fusarium | - | - | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | - | - | - |
| Myxomycetes++ | - | - | - | - | - | - | - | - | - |
| Pithomyces++ | - | - | - | - | - | - | - | - | - |
| Rust | - | - | - | 1 | 40 | 100 | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - | - | - |
| Total Fungi | 1 | 40 | 100 | 1 | 40 | 100 | 2 | 80 | 100 |
| Hyphal Fragment | - | - | - | - | - | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - | - | - |
| Pollen | - | - | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 41 | - | - | 41 | - | - | 41 | - |
| Analyt. Sensitivity 300x | - | 13* | - | - | 13* | - | - | 13* | - |
| Skin Fragments (1-4) | - | 1 | - | - | 2 | - | - | 2 | - |
| 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.

Vincent Iuzzolino, M.S., Laboratory Director
or other Approved Signatory

No discernable field blank was submitted with this group of samples.

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. 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. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. 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.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-EMLAP Accredited #100194

Initial report from: 02/12/2021 11:44 AM

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



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-0262

http://www.EMSL.com / cinmicrolab@emsl.com

EMSL Order: 372101670

Customer ID: TIDE50

Customer PO:

Project ID:

Attention: Skanda Abeyeskere
Tidewater, Inc.
6625 Selnick Drive
Suite A
Elkridge, MD 21075

Project: Fairmont Heights HS

Phone: (410) 540-8700

Fax: (410) 997-8713

Collected Date: 01/27/2021

Received Date: 02/01/2021

Analyzed Date: 02/12/2021

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

| Lab Sample Number: | 372101670-0010 | | | 372101670-0011 | | | |
|---------------------------|------------------------|----------------------|------------|----------------|----------------------|------------|---|
| Client Sample ID: | FHHS-10 | | | FHHS-BG | | | |
| Volume (L): | 75 | | | 75 | | | |
| Sample Location: | A211 - Teachers Lounge | | | Background | | | |
| Spore Types | Raw Count | Count/m ³ | % of Total | Raw Count | Count/m ³ | % of Total | |
| Alternaria (Ulocladium) | - | - | - | - | - | - | - |
| Ascospores | - | - | - | - | - | - | - |
| Aspergillus/Penicillium | - | - | - | - | - | - | - |
| Basidiospores | 1 | 40 | 100 | 2 | 80 | 50 | - |
| Bipolaris++ | - | - | - | - | - | - | - |
| Chaetomium | - | - | - | - | - | - | - |
| Cladosporium | - | - | - | 2 | 80 | 50 | - |
| Curvularia | - | - | - | - | - | - | - |
| Epicoccum | - | - | - | - | - | - | - |
| Fusarium | - | - | - | - | - | - | - |
| Ganoderma | - | - | - | - | - | - | - |
| Myxomycetes++ | - | - | - | - | - | - | - |
| Pithomyces++ | - | - | - | - | - | - | - |
| Rust | - | - | - | - | - | - | - |
| Scopulariopsis/Microascus | - | - | - | - | - | - | - |
| Stachybotrys/Memnoniella | - | - | - | - | - | - | - |
| Unidentifiable Spores | - | - | - | - | - | - | - |
| Zygomycetes | - | - | - | - | - | - | - |
| Total Fungi | 1 | 40 | 100 | 4 | 160 | 100 | - |
| Hyphal Fragment | - | - | - | - | - | - | - |
| Insect Fragment | - | - | - | - | - | - | - |
| Pollen | - | - | - | - | - | - | - |
| Analyt. Sensitivity 600x | - | 41 | - | - | 41 | - | - |
| Analyt. Sensitivity 300x | - | 13* | - | - | 13* | - | - |
| Skin Fragments (1-4) | - | 2 | - | - | 1 | - | - |
| Fibrous Particulate (1-4) | - | 1 | - | - | 1 | - | - |
| Background (1-5) | - | 1 | - | - | 1 | - | - |

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

Vincent Iuzzolino, M.S., Laboratory Director
or other Approved Signatory

No discernable field blank was submitted with this group of samples.

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. 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. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. 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.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-EMLAP Accredited #100194

Initial report from: 02/12/2021 11:44 AM

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

Microbiology Chain of Custody

EMSL Order Number (Lab Use Only)

RECEIVED
EMSL
CINNAMINSON, NJ

372101670

PHONE:
FAX:

2021 FEB - 1 A 11:57

| | | | |
|---|--------------------|---|-----------------|
| Company: Tidewater Inc | | EMSL-Bill to: <input type="checkbox"/> Different <input type="checkbox"/> Same If Bill to is Different note instructions in Comments** | |
| Street: 6625 Selnick Drive, Suite A | | Third Party Billing requires written authorization from third party | |
| City: Elkridge | State/Province: MD | Zip/Postal Code: | Country: |
| Report To (Name): Skanda Abeyesekere | | Telephone #: | |
| Email Address: skanda@tidedh2o.net | | Fax #: | Purchase Order: |
| Project Name/Number: Farmont Heights HS | | Please Provide Results: <input type="checkbox"/> FAX <input type="checkbox"/> E-mail <input type="checkbox"/> Mail | |
| U.S. State Samples Taken: Maryland | | Connecticut Samples: <input type="checkbox"/> Commercial <input type="checkbox"/> Residential | |

Turnaround Time (TAT) Options* - Please Check

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

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. TATs are subject to methodology requirements

Non Culturable Air Samples (Spore Traps) – Test Codes

| | | | | |
|-------------------|-------------------|--------------------|---------------------|-------------------|
| • M001 Air-O-Cell | • M173 Allegro M2 | • M004 Allergenco | • M032 Allergenco-D | • M172 Versa Trap |
| • M049 BioSIS | • M003 Burkard | • M043 Cyclcx | • M002 Cyclcx-d | |
| • M030 Micro 5 | • M174 MoldSnap | • M176 Relle Smart | • M130 Via-Cell | |

Other Microbiology Test Codes

| | | |
|--|--|--|
| • M041 Fungal Direct Examination | • M014 Endotoxin Analysis | • M029 Enterococci |
| • M005 Viable Fungi ID and Count | • M015 Heterotrophic Plate Count | • M019 Fecal Coliform |
| • M006 Viable Fungi ID and Count (Speciation) | • M180 Real Time Q-PCR-ERMI 36 | • M133 MRSA Analysis |
| • M007 Culturable Fungi | • Panel | • M028 Cryptococcus neoformans Detection |
| • M008 Culturable Fungi (Speciation) | • M018 Total Coliform (Membrane Filtration) | • M120 Histoplasma capsulatum Detection |
| • M009 Gram Stain Culturable Bacteria | • M020 Fecal Streptococcus (Membrane Filtration) | • M033-39 Allergen Testing |
| • M010 Bacterial Count and ID – 3 Most Prominent | • M210-215 Legionella Detection | • M044 Group Allergen (Cat, Dog, Cockroach, Dustmites) |
| • M011 Bacterial Count and ID – 5 Most Prominent | • M026 Recreational Water Screen | • Other See Analytical Price Guide |
| • M013 Sewage Contamination in Buildings | • M027 Mycotoxin Analysis | |

Preservation Method (Water):

Name of Sampler: Skanda Abeyesekere

Signature of Sampler: *Skanda Abeyesekere*

| Sample # | Sample Location | Sample Type | Test Code | Volume/Area | Date/Time Collected |
|-------------|-------------------|-------------|-----------|-------------|---------------------|
| Example: A1 | Kitchen | Air | M001 | 75L | 1/1/12 4:00 PM |
| FHHS-1 | Media Center | Air | M032 | 75-0 | 01/27/21 |
| -2 | Health center | | | | |
| B124-SP3 | B124-UP | | | | |
| -4 | Room A-135 | | | | |
| -5 | Room D105 Health | | | | |
| -6 | Multipurpose room | | | | |
| -7 | 2nd fl - B-219 | | | | |
| -8 | 2nd fl - C-211 | | | | |
| -9 | " - A-205 | | | | |

Client Sample # (s): _____ Total # of Samples: 11 / 11

Relinquished (Client): *Skanda Abeyesekere* Date: 01/27/21 Time: 3:30 pm

Received (Client): *Yomoth Drop Box* Date: 1/29/21 Time: 2:50 pm

Comments: *Chalam FX 2/1/21 9^{am}*

RECEIVED
Microbiology Chain of Custody EMSL
 EMSL Order Number (Lab Use Only) ~~0111~~ AMINSON, NJ

372101670 FEB - 1

A 11: 51 PHONE:
FAX:

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

| Sample # | Sample Location | Sample Type | Test Code | Volume/Area | Date/Time Collected |
|----------------------------------|-----------------|-------------|-----------|-------------|---------------------|
| FHHS-104211 | Teachers Lounge | Ass | M032 | 75.0 | 01/27/21 |
| FHHS-BG | Background | | | | |
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| **Comments/Special Instructions: | | | | | |



APPENDIX C
INSTRUMENT CALIBRATION CERTIFICATES



CERTIFICATE OF CALIBRATION AND TESTING

TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA
 Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 <http://www.tsi.com>

| | | | | |
|------------------------|---------------|------------|----------------------|---------------------|
| ENVIRONMENT CONDITIONS | | | MODEL | 9565-X |
| TEMPERATURE | 74.1 (23.4) | °F (°C) | | |
| RELATIVE HUMIDITY | 26 | %RH | | |
| BAROMETRIC PRESSURE | 29.26 (990.9) | inHg (hPa) | | |
| | | | SERIAL NUMBER | 9565X1945002 |

| | |
|---|--|
| <input checked="" type="checkbox"/> AS LEFT | <input checked="" type="checkbox"/> IN TOLERANCE |
| <input type="checkbox"/> AS FOUND | <input type="checkbox"/> OUT OF TOLERANCE |

-- CALIBRATION VERIFICATION RESULTS --

| THERMO COUPLE [^] | | | | SYSTEM PRESSURE01-01 | | | | Unit: °F (°C) |
|----------------------------|-------------|-------------|-----------------------|----------------------|----------|----------|-----------------|---------------|
| # | STANDARD | MEASURED | ALLOWABLE RANGE | # | STANDARD | MEASURED | ALLOWABLE RANGE | |
| 1 | 71.6 (22.0) | 71.6 (22.0) | 69.6~73.6 (20.9~23.1) | | | | | |

| BAROMETRIC PRESSURE | | | | SYSTEM PRESSURE01-01 | | | | Unit: inHg (hPa) |
|---------------------|---------------|---------------|----------------------------|----------------------|----------|----------|-----------------|------------------|
| # | STANDARD | MEASURED | ALLOWABLE RANGE | # | STANDARD | MEASURED | ALLOWABLE RANGE | |
| 1 | 29.26 (990.9) | 29.26 (990.9) | 28.67~29.85 (970.9~1010.8) | | | | | |

[^] Circuit portion of temperature measurement only, not including probe.

TSI does hereby certify that the above described instrument conforms to the original manufacturer's specification (not applicable to As Found data), and has been calibrated using standards whose accuracies are traceable to the United States National Institute of Standards and Technology (NIST) or has been verified with respect to instrumentation whose accuracy is traceable to NIST, or is derived from accepted values of physical constants. TSI's calibration system is registered to ISO 9001:2015

| | | | | | | | |
|-----------------------------|------------------|------------------|-----------------|-----------------------------|------------------|------------------|-----------------|
| <u>Measurement Variable</u> | <u>System ID</u> | <u>Last Cal.</u> | <u>Cal. Due</u> | <u>Measurement Variable</u> | <u>System ID</u> | <u>Last Cal.</u> | <u>Cal. Due</u> |
| DC Voltage | E003299 | 06-06-19 | 12-31-20 | DC Voltage | E003500 | 06-06-19 | 12-31-20 |
| Temperature | E004626 | 01-09-19 | 01-31-20 | Pressure | E003302 | 08-07-19 | 02-29-20 |
| Pressure | E003303 | 08-26-19 | 02-29-20 | | | | |

Rose Germain

CALIBRATED

November 8, 2019

DATE

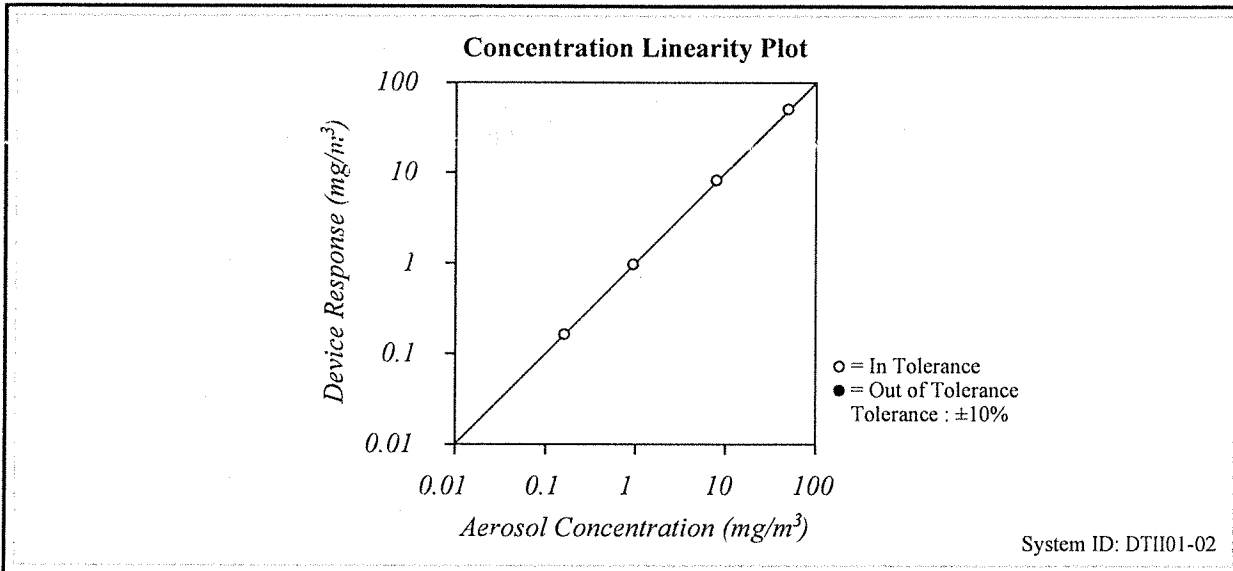


CERTIFICATE OF CALIBRATION AND TESTING

TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA
 Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 http://www.tsi.com

| | | | | |
|------------------------|---------------|------------|---------------|-------------------|
| Environment Conditions | | | Model | 8534 |
| Temperature | 75.83 (24.4) | °F (°C) | Serial Number | 8534170101 |
| Relative Humidity | 43.6 | %RH | | |
| Barometric Pressure | 28.93 (979.7) | inHg (hPa) | | |

| | | |
|---|--|--|
| <input checked="" type="checkbox"/> As Left | <input checked="" type="checkbox"/> In Tolerance | |
| <input type="checkbox"/> As Found | <input type="checkbox"/> Out of Tolerance | |



| FLOW AND PRESSURE VERIFICATION | | | | SYSTEM DTH101-01 | | | |
|--------------------------------|----------|----------|-----------------|------------------|----------|----------|-----------------|
| Parameter | Standard | Measured | Allowable Range | Parameter | Standard | Measured | Allowable Range |
| Flow lpm | 3.00 | 3.03 | 2.88 ~ 3.12 | Pressure kPa | 97.8 | 97.8 | 92.95 ~ 102.73 |
| Full Flow lpm | N/A | 4.54 | >3.80 | | | | |

TSI Incorporated does hereby certify that all materials, components, and workmanship used in the manufacture of this equipment are in strict accordance with the applicable specifications agreed upon by TSI and the customer and with all published specifications. All performance and acceptance tests required under this contract were successfully conducted according to required specifications. There is no NIST standard for optical mass measurements. Calibration of this instrument performed by TSI has been done using emery oil and has been nominally adjusted to respirable mass per standard ISO 12103-1, Ai test dust (Arizona dust). Our calibration ratio is greater than 1.2:1

| Measurement Variable | System ID | Last Cal. | Cal. Due | Measurement Variable | System ID | Last Cal. | Cal. Due |
|----------------------|-----------|-----------|----------|----------------------|-----------|-----------|----------|
| DC Voltage | E003314 | 01-15-20 | 01-31-21 | Photometer | E005612 | 08-19-20 | 02-28-21 |
| Microbalance | M001324 | 10-03-18 | 10-31-20 | 1 um PSL | 698880 | n/a | n/a |
| 3 um PSL | 221853 | n/a | n/a | 10 um PSL | 212455 | n/a | n/a |
| Pressure | E003511 | 10-04-19 | 10-31-20 | Flowmeter | E005140 | 01-09-20 | 01-31-21 |
| DC Voltage | E003315 | 01-15-20 | 01-31-21 | Photometer | E003433 | 09-15-20 | 03-31-21 |
| Flowmeter | E005922 | 06-29-20 | 06-30-21 | DC Voltage(Keithley) | E002859 | 06-15-20 | 06-30-21 |
| Microbalance | M001324 | 10-03-18 | 10-31-20 | Pressure | E005651 | 07-06-20 | 07-31-21 |
| 1 um PSL | 698880 | n/a | n/a | 3 um PSL | 206030 | n/a | n/a |
| 10 um PSL | 212455 | n/a | n/a | | | | |

David Farrell

September 24, 2020

Calibrated

Date

Certificate of Conformance

Buck BioAire™

Buck BioSlide™

Serial number: B153043 Date Issued: 3-18-20

Flow Calibration

The instrument listed above is in conformance with factory specifications and the flow is set to nominal using a BUCK Calibrator which is N.I.S.T. traceable to A. P. Buck, Inc. Calibration Procedure APB-1, Ver. 6.2.

QA APPROVAL BY: Thomas J. Coomans

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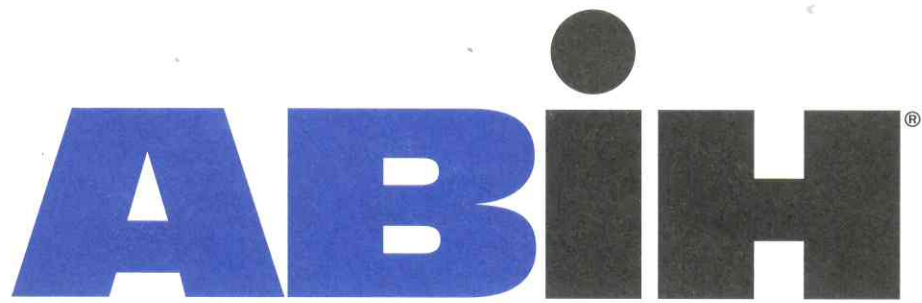
A.P. BUCK, INC.
7101 Presidents Drive, Suite 110
Orlando, FL 32809
Phone: 407-851-8602 • Fax: 407-851-8910

BUCK
A.P. BUCK, INC.

COCR-004 REV-01 3/3/2006



APPENDIX D
RELEVANT CERTIFICATIONS



american board of industrial hygiene®

organized to improve the practice of industrial hygiene
proclaims that

Skandakumar Harshanath Abeyesekere

having met all requirements of
education, experience and examination, and
ongoing maintenance,
is hereby certified in the

**COMPREHENSIVE PRACTICE
of
INDUSTRIAL HYGIENE**

and has the right to use the designations

CERTIFIED INDUSTRIAL HYGIENIST

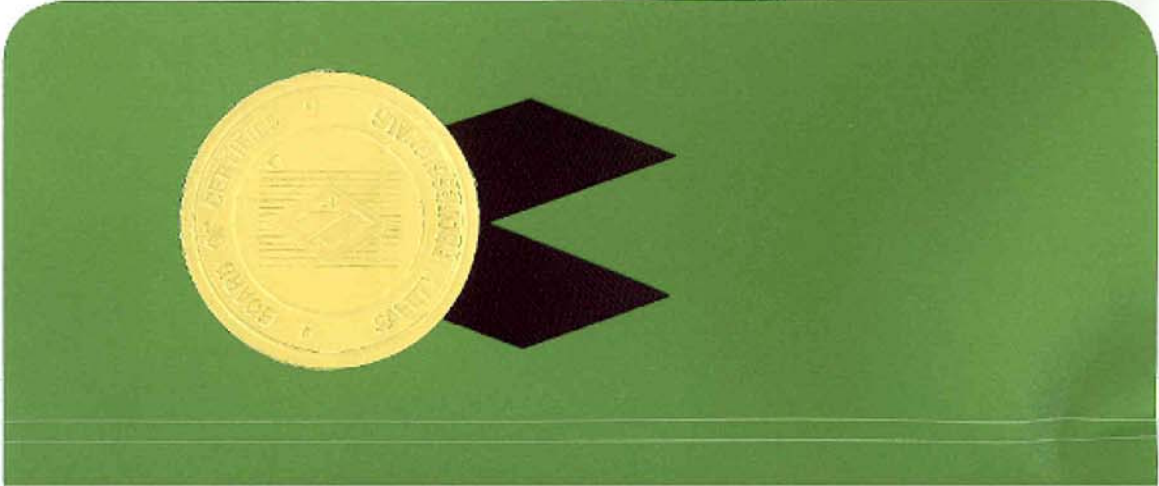
CIH

| | |
|--------------------|------------------|
| Certificate Number | 9928 CP |
| Awarded: | May 11, 2011 |
| Expiration Date: | December 1, 2021 |



Susan Ripple
Chair, ABIH

William K. Oliver
Chief Executive Officer, ABIH



**BOARD OF
CERTIFIED SAFETY PROFESSIONALS**

affirms that

Skandakumar Abeyesekere

Has applied for, met qualifications, and passed required examination(s) and is hereby authorized to use the designation

Certified Safety Professional®
in Comprehensive Practice

So long as this certificate is not suspended or revoked and the certificant renews this authorization annually and meets Continuance of Certification requirements.

Board of Examiners in witness whereof we have here unto set our hands and affixed the Seal of the Board this 7th Day of April, 2008



| | |
|---------------------|------------------|
| <i>Paul S Adams</i> | President |
| <i>Linda Japp</i> | Secretary |
| 20110 | CSP No. |



THIS CERTIFIES THAT

Skandakumar Abeyeskere

HAS SUCCESSFULLY MET ALL THE REQUIREMENTS OF EDUCATION, EXPERIENCE AND EXAMINATION, AND IS HEREBY DESIGNATED A

**CERTIFIED HAZARDOUS MATERIALS MANAGER
CHMM**



May 13, 2016

DATE OF CERTIFICATION

19053

CREDENTIAL NUMBER

May 31, 2021

CERTIFICATION EXPIRES

M. Patricia Buley
ACTING EXECUTIVE DIRECTOR

VALID SO LONG AS THIS CREDENTIAL IS RENEWED ACCORDING TO SCHEDULE AND IS NOT OTHERWISE REVOKED.



Accredited by the American National Standards Institute and the Council of Engineering and Scientific Specialty Boards





APPENDIX E

FLOOR PLAN WITH SAMPLING LOCATIONS

Green House



General Notes

Scale: N/A

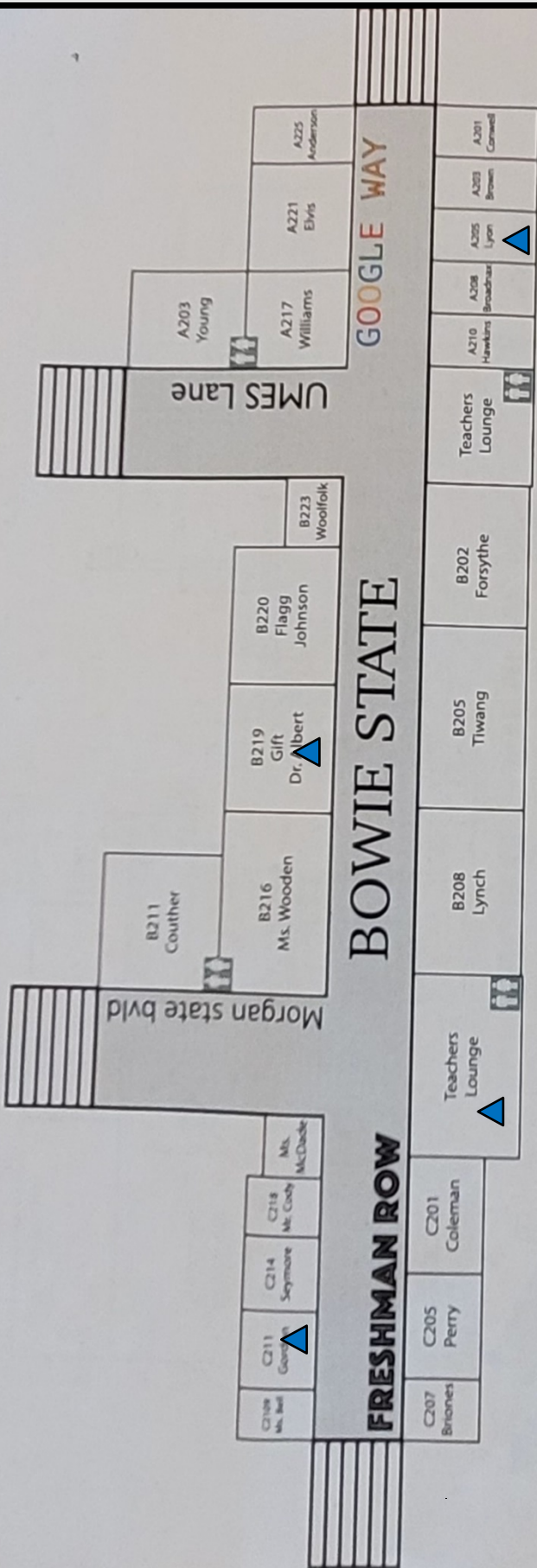
Attachment C
Fairmont Heights High School
Floor Plan with Sampling Locations

TIDEWATER INC

Project #: 5419 - 047
Date: January 27, 2021



= Sample Location



Attachment C
 Fairmont Heights High School
 Floor Plan with Sampling Locations

Scale: N/A
 Project #: 5419 - 047
 Date: January 27, 2021

TIDEWATER INC
 ▲ = Sample Location