ESI Environmental Solutions, Inc.

www.esi4u.com (410)-867-6262

Discovery Environmental Inspection Report

Project Contact Information

Alex Baylor Environmental Specialists Environmental Safety Office 13306 Old Marlboro Pike Upper Marlboro, MD 20772 301-952-6760 alex.baylor@pgcps.org	Mary Harris Mother Jones Elementary School 76,842 Ft^2	Zack Butcher Certified Indoor Environmentalist Environmental Solutions, Inc. 6114 Drum Point Rd Deale, MD 20751 410-867-6262 zack@esi4u.com

Property Location

2405 Tecumseh Street, Adelphi, MD 20783

Date of Inspection: 5/1/2019

Prepared By: Zack Butcher

Certified Indoor Environmentalist (CIE)

Dear Mr. Baylor,

The results of the inspection and testing performed at Mary Harris Mother Jones Elementary School are concluded, and the findings are enclosed. I want to thank you for allowing ESI the opportunity to service your indoor environmental needs. Included in this report are the observations, lab results, and recommendations from ESI's 05/01/2019 inspection and testing.

Background Information

The Prince Georges County Public School Environmental Team has taken a proactive approach in cleaning the above-mentioned school to ensure there are no health or environmental risks related to microbial hazards. Historically elevated levels of humidity, condensation from pipes, periodic steam leaks and outdated HVAC systems, may have contributed to water damage ceiling tiles and colonization of mold spores in various area of the school.

Purpose

ESI was engaged to inspect the school in a random and sufficient manner. Classrooms, administration offices, and common area building materials and contents will be visually inspected for water damage and microbial growth.

In each location inspected, the indoor air quality will be tested for elevated levels of carbon dioxide and carbon monoxide, in addition to measuring the relative humidity and temperature. Microbial / biological hazards within the breathable air space will also be tested.

Based upon the visual assessment, instrument readings and lab results, ESI will determine if additional remediation in required.

Observations and Instrument Readings

The following table is designed for this project. Some of the fields may not be filled in due to not being applicable during the time of the inspection. You will notice either a 'YES' or 'NO' in the table. 'YES' indicates that mold and /or water damage was detected and 'NO' indicates it was not. If 'YES' is noted, remediation recommendation will be included for the area inspected.

Location	IAQ Sample #	Swab	R/H	Temp	CO2	Co	Cubic feet of air.	
238	2434622	N/A	57.0%	73.2°	1,467	0.00	9,500	
Inspected								
Ceiling Tiles	Walls	Teachers Desk	Children's Desk	Tables	Cabinets Shelving	Convector	HVAC Diffusors	Windows/ Doors
2x4	CMU + WB	1	0	6	7	1	1	2 windows 1 door
YES	NO	NO	N/A	NO	NO	YES	NO	NO

Inspected

- There was dust and debris on the convector unit.
- There were two water stained ceiling tiles.
- The Carbon Dioxide (CO2) level in this room was elevated at 1,467 ppm (parts per million).
- The indoor air quality should not pose health or environmental concerns, as the total fungal ecology was 360 spores/M³ of breathable air space.

Recommendations

- Clean convector unit fins with an antimicrobial to remove dust and discolorations.
- Remove, discard, and replace the two water stained ceiling tiles.
- To reduce Carbon Dioxide (CO2) levels, increase air exchange within this classroom. Ventilating or circulating the air with a fan will also reduce Carbon Dioxide (CO2) levels.

Location	IAQ Sample #	Swab	R/H	Temp	CO2	Co	Cubic feet of air.	
251	2439390	N/A	60.3%	73.9°	1,859	0.00	9,900	
Inspected								
Ceiling Tiles	Walls	Teachers Desk	Children's Desk	Tables	Cabinets Shelving	Convector	HVAC Diffusors	Windows
2x4	CMU + WB	1	0	6	11	1	1	2
YES	NO	NO	N/A	NO	NO	YES	YES	NO

Observation Notes

- There were six water stained ceiling tiles.
- There were some contents piled up on the convector unit.
- There was dust and debris on the diffuser grills.
- The Carbon Dioxide (CO2) level in this room was elevated at 1,859 ppm (parts per million).
- The indoor air quality should not pose health or environmental concerns, as the total fungal ecology was 200 spores/M³ of breathable air space.

Recommendations

- Remove, discard, and replace the water stained ceiling tiles.
- Remove the contents piled up on the convector unit and clean the convector unit fins with and antimicrobial to removed dust and debris.
- Clean the diffuser grills with an antimicrobial to remove the dust and debris.
- To reduce Carbon Dioxide (CO2) levels, increase air exchange within this classroom. Ventilating or circulating the air with a fan will also reduce Carbon Dioxide (CO2) levels.

Location	IAQ Sample #	Swab	R/H	Temp	CO2	Co	Cubic feet of air.	
150	2439391	N/A	57.3%	74.8°	1,566	0.00	13,000	
Inspected								
Ceiling Tiles	Walls	Teachers Desk	Children's Desk	Tables	Cabinets Shelving	Convector	HVAC Diffusors	Windows
2x4	CMU	1	0	4	2	0	6	3 windows
NO	NO	NO	N/A	NO	NO	N/A	YES	NO
Observation Notes								
• There was dust and debris on the diffuser grills. • The Carbon Dioxide (CO2) level in this room was elevated at 1,566 ppm (parts per million). • The indoor air quality should not pose health or environmental concerns, as the total fungal ecology was 160 spores/M³ of breathable air space.								
Recommendations								
• Clean the diffuser grills with an antimicrobial to remove the dust and debris. • To reduce Carbon Dioxide (CO2) levels, increase air exchange within this classroom. Ventilating or circulating the air with a fan will also reduce Carbon Dioxide (CO2) levels.								

Location	IAQ Sample #	Swab	R/H	Temp	CO2	Co	Cubic feet of air.	
214	2439392	N/A	61.5%	74.8°	1,717	0.00	8,100	
Inspected								
Ceiling Tiles	Walls	Teachers Desk	Children's Desk	Tables	Cabinets Shelving	Convector	HVAC Diffusors	Windows
2x4	CMU + WB	1	25	6	3	1	2	2
YES	NO	N/A	N/A	NO	YES	NO	YES	NO
Observation Notes								
• There was one water stained ceiling tile. • There was dust and debris on the diffuser grills. • There were water stains on the wallboard under the sink. • The Carbon Dioxide (CO2) level in this room was elevated at 1,717 ppm (parts per million). • The indoor air quality should not pose health or environmental concerns, as the total fungal ecology was 200 spores/M³ of breathable air space.								
Recommendations								
• Remove, discard, and replace the one water stained ceiling tile. • Clean the diffuser grills with an antimicrobial to remove the dust and debris. • HEPA vacuum, then damp-wipe the water stained wallboard under the sink with an anti-microbial agent to remove water staining and suspected microbial contamination. • To reduce Carbon Dioxide (CO2) levels, increase air exchange within this classroom. Ventilating or circulating the air with a fan will also reduce Carbon Dioxide (CO2) levels.								

Location	IAQ Sample #	Swab	R/H	Temp	CO2	Co	Cubic feet of air.	
326	2439393	N/A	50.0%	75.9°	1,575	0.00	5,300	
Inspected								
Ceiling Tiles	Walls	Teachers Desk	Children's Desk	Tables	Cabinets Shelving	Convector	HVAC Diffusors	Windows
2x4	CMU + WB	0	0	3	2	2	2	0
YES	NO	N/A	N/A	NO	NO	YES	NO	N/A

Observation Notes

- There were five water stained ceiling tiles.
- There was dust and debris on the convector unit fins.
- The Carbon Dioxide (CO2) level in this room was elevated at 1,575 ppm (parts per million).
- The indoor air quality should not pose health or environmental concerns, as the total fungal ecology was 120 spores/M³ of breathable air space.

Recommendations

- Remove, discard, and replace the five water stained ceiling tiles.
- Clean the convector unit fins with an antimicrobial to remove the dust and debris.
- To reduce Carbon Dioxide (CO2) levels, increase air exchange within this classroom. Ventilating or circulating the air with a fan will also reduce Carbon Dioxide (CO2) levels.

Location	IAQ Sample #	Swab	R/H	Temp	CO2	Co	Cubic feet of air.	
332	2439394	N/A	51.2%	77.5°	951	0.00	7,900	
Inspected								
Ceiling Tiles	Walls	Teachers Desk	Children's Desk	Tables	Cabinets Shelving	Convector	HVAC Diffusors	Windows
2x4	CMU	1	25	2	5	1	1	2
NO	NO	NO	N/A	NO	NO	YES	NO	NO

Observation Notes

- There were contents piled up on the convector unit.
- The indoor air quality should not pose health or environmental concerns, as the total fungal ecology was 400 spores/M³ of breathable air space.

Recommendations

- Remove the contents piled up on the convector unit and clean the convector unit fins with and antimicrobial to removed dust and debris.

Location	IAQ Sample #	Swab	R/H	Temp	CO2	Co	Cubic feet of air.	
313	2439395	N/A	44.6%	76.4°	3,584	0.00	8,200	
Inspected								
Ceiling Tiles	Walls	Teachers Desk	Children's Desk	Tables	Cabinets Shelving	Convector	HVAC Diffusors	Windows
2x4	CMU + WB	1	25	2	4	1	2	2
NO	NO	NO	N/A	NO	NO	NO	NO	NO
Observation Notes								
• The Carbon Dioxide (CO2) level in this room was elevated at 3,584 ppm (parts per million). • The indoor air quality should not pose health or environmental concerns, as the total fungal ecology was 200 spores/M³ of breathable air space.								
Recommendations								
• To reduce Carbon Dioxide (CO2) levels, increase air exchange within this classroom. Ventilating or circulating the air with a fan will also reduce Carbon Dioxide (CO2) levels.								

Location	IAQ Sample #	Swab	R/H	Temp	CO2	Co	Cubic feet of air.
Outside	2434621		60.9%	67.8°			
Observation Notes							
• The total fungal ecology in the outdoor control sample was 280 spores/M³ of breathable air space.							

Interpretation of Lab Results

In the enclosed Air Cassette Analysis report, you will notice Fungal Identification, which is the genera detected in the breathable airspace inside, and outside. The Raw count is the actual number of spores counted on the slide, and the Count/m3 are the spores per cubic meter of air. The other particles are non-living particles such as dander, mycelial fragments, pollens, etc.

For humans to be exposed indoors, fungal spores, fragments, or metabolites must be released into the air and inhaled, physically contacted (dermal exposure), or ingested. Whether symptoms develop in people exposed to fungi depends on the nature of the fungal material (e.g., allergenic, toxic, or infectious), the amount of exposure, and the susceptibility of exposed persons.

Susceptibility varies with genetic predisposition (e.g., allergic reactions do not always occur in all individuals), age, state of health, and concurrent exposures.

Air Sampling Lab Results

SanAir Technologies Laboratory

Name: Environmental Solutions, Inc
Address: 534-A Deale Road
Deale, MD 20751
Phone: 410-867-6262

Project Number: 2405 Tecumseh Street
P.O. Number: JZB
Project Name: Mary Harris Mother Jones Elementary School
Collected Date: 5/1/2019
Received Date: 5/2/2019 10:00:00 AM

SanAir ID Number
19020920
FINAL REPORT
5/3/2019 3:28:31 PM

Analyst: Martin, Brice

Air Cassette Analysis

ND = None Detected. Blank spaces indicate no spores detected.

SanAir ID Number	19020920-001			19020920-002			19020920-003			19020920-004		
Analysis Using STL	107C			107C			107C			107C		
Sample Number	2434621			2434622			2439390			2439391		
Sample Identification	Control-Outside			Room 238			Room 251			Room 150		
Sample Type	Air Cassette - Micro-5			Air Cassette - Micro-5			Air Cassette - Micro-5			Air Cassette - Micro-5		
Volume	25 Liters			25 Liters			25 Liters			25 Liters		
Analytical Sensitivity	40 Count/M³			40 Count/M³			40 Count/M³			40 Count/M³		
Background Density	1+			2+			2+			2+		
Other	**Raw Count**	**Count/M³**	**%**	**Raw Count**	**Count/M³**	**%**	**Raw Count**	**Count/M³**	**%**	**Raw Count**	**Count/M³**	**%**
Dander	1	40	n/a	333	13320	n/a	360	14400	n/a	182	7280	n/a
Fibers	2	80	n/a	9	360	n/a	7	280	n/a	5	200	n/a
Mycelial Fragments				1	40	n/a				1	40	n/a
Pollen												
Fungal Identification	**Raw Count**	**Count/M³**	**%**	**Raw Count**	**Count/M³**	**%**	**Raw Count**	**Count/M³**	**%**	**Raw Count**	**Count/M³**	**%**
Ascospores	1	40	14				1	40	20			
Aspergillus/Penicillium	1	40	14	4	160	44	1	40	20	2	80	50
Basidiospores	2	80	29									
Bispora like				1	40	11	2	80	40	1	40	25
Cladosporium species	3	120	43	3	120	33				1	40	25
Rusts												
Smuts/Myxomycetes				1	40	11	1	40	20			
TOTAL	**7**	**280**		**9**	**360**		**5**	**200**		**4**	**160**	

Signature: Brice Martin Date: 5/3/2019 Reviewed: Johnathan Wilson Date: 5/3/2019

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Air Cassette Analysis

ND = None Detected. Blank spaces indicate no spores detected.

SanAir ID Number	19020920-005			19020920-006			19020920-007			19020920-008		
Analysis Using STL	107C			107C			107C			107C		
Sample Number	2439392			2439393			2439394			2439395		
Sample Identification	Room 214			Room 326			Room 332			Room 313		
Sample Type	Air Cassette - Micro-5			Air Cassette - Micro-5			Air Cassette - Micro-5			Air Cassette - Micro-5		
Volume	25 Liters			25 Liters			25 Liters			25 Liters		
Analytical Sensitivity	40 Count/M³			40 Count/M³			40 Count/M³			40 Count/M³		
Background Density	2+			2			2			3		
Other	**Raw Count**	**Count/M³**	**%**	**Raw Count**	**Count/M³**	**%**	**Raw Count**	**Count/M³**	**%**	**Raw Count**	**Count/M³**	**%**
Dander	376	15040	n/a	33	1320	n/a	53	2120	n/a	381	15240	n/a
Fibers	11	440	n/a	2	80	n/a	4	160	n/a	6	240	n/a
Mycelial Fragments	3	120	n/a				2	80	n/a			
Pollen							1	40	n/a	2	80	n/a
Fungal Identification	**Raw Count**	**Count/M³**	**%**	**Raw Count**	**Count/M³**	**%**	**Raw Count**	**Count/M³**	**%**	**Raw Count**	**Count/M³**	**%**
Ascospores	3	120	60				2	80	20	1	40	20
Aspergillus/Penicillium							4	160	40			
Basidiospores							1	40	10			
Bispora like												
Cladosporium species				3	120	>99	2	80	20	1	40	20
Rusts	1	40	20									
Smuts/Myxomycetes	1	40	20				1	40	10	3	120	60
TOTAL	**5**	**200**		**3**	**120**		**10**	**400**		**5**	**200**	

Signature: Brice Martin Date: 5/3/2019 Reviewed: Johnathan Wilson Date: 5/3/2019

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Organism Descriptions

The descriptions of the organisms presented are derived from various reference materials. The laboratory report is based on the data derived from the samples submitted and no interpretation of the data, as to potential, or actual, health effects resulting from exposure to the numbers of organisms found, can be made by laboratory personnel. Any interpretation of the potential health effects of the presence of this organism must be made by qualified professional personnel with first hand knowledge of the sample site, and the problems associated with that site.

Dander - Comprised of human and/or animal skin cells. Counts may be higher in carpeted rooms and in rooms with more traffic.
Health Effects: May cause allergies.

Fibers - This category can include clothing, carpet, and insulation fibers.

Mycelial Fragments - A mycelium (plural = mycelia) is the "body" of a fungus. It is a collective term for hyphae (singular = hypha), which are the tubular units of the mycelium usually composed of chitin. The terms hyphae and mycelial fragments are used interchangeably. [This information was referenced from the mycology text "The Fifth Kingdom"]In some cases a fungal identification cannot be obtained due to lack of sporulation. Only the mycelial fragments are present, and cannot be identified without the distinguishing characteristics of the spores or the structures they grow from.
Health Effects: Allergic reactions may occur in the presence of spores (conidia) or mycelial/hyphal fragments.

Pollen - Produced by trees, flowers, weeds and grasses. The level of pollen production can depend on water availability, precipitation, temperature, and light. Pollen is usually dispersed by either insects or the wind.
Health Effects: Mostly effects the respiratory tract with hay fever symptoms but has also been shown to trigger asthma in some people.

Ascospores - From the fungal Subphylum Ascomycotina. Ascospores are ubiquitous in nature and are commonly found in the outdoor environment. This class contains the "sac fungi" and yeasts. Some ascospores can be identified by spore morphology, however; some care should be excercised with regard to specific identification. They are identified on tape lifts and non-viable analysis by the fact that they have no attachment scars and are sometimes enclosed in sheaths with or without sacs. Ascomycetes may develop both sexual and asexual stages. Rain and high humidity may help asci to release, and dispurse ascospores, which is why during these weather conditions there is a great increase in counts.
Health Effects: This group contains possible allergens.

Aspergillus/Penicillium - These spores are easily aerosolized. Only through the visualization of reproductive structures can the genera be distinguished. Also included in this group are the spores of the genera Acremonium, Phialophora, Verticillium, Paecilomyces, etc. Small, round spores of this group lack the necessary distinguishing characteristics when seen on non-viable examination.
Health Effects: Can cause a variety of symptoms including allergic reactions. Most symptoms occur if the individual is immunocompromised in some way (HIV, cancer, etc). Both Penicillium and Aspergillus spores share similar morphology on non-viable analysis and therefore are lumped together into the same group.

Basidiospores - From the Subphylum Basidiomycotina which contains the mushrooms, shelf fungi, and a variety of other macrofungi. They are saprophytes, ectomycorrhizal fungi or agents of wood rot, which may destroy the structure wood of buildings. It is extremely difficult to identify a specific genera of mushrooms by using standard culture plate techniques. Some basidiomycete spores can be identified by spore morphology; however, some care should be exercised with regard to specific identification. The release of basidiospores is dependant upon moisture, and they are dispersed by wind.
Health Effects: Many have the potential to produce a variety of toxins. Members of this group may trigger Type I and III fungal hypersensitivity reactions. Rarely reported as opportunistic pathogens.

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Organism Descriptions

The descriptions of the organisms presented are derived from various reference materials. The laboratory report is based on the data derived from the samples submitted and no interpretation of the data, as to potential, or actual, health effects resulting from exposure to the numbers of organisms found, can be made by laboratory personnel. Any interpretation of the potential health effects of the presence of this organism must be made by qualified professional personnel with first hand knowledge of the sample site, and the problems associated with that site.

Bispora like - Bispora is a ubiquitous anamorphic fungus and may be isolated from decaying wood.
Health Effects: There has been no known research on the health effects, toxicity, or allergens to this fungi.
References: C.J. K. Wang, R.A. Zabel, Identification Manual for Fungi from Utility Poles in the Eastern United States, American Type Culture Collection 1990

Cladosporium species - The most commonly identified outdoor fungus. The outdoor numbers are reduced in the winter and are often high in the summer. Often found indoors in numbers less than outdoor numbers. It is commonly found on the surface of fiberglass duct liner in the interior of supply ducts. A wide variety of plants are food sources for this fungus. It is found on dead plants, woody plants, food, straw, soil, paint and textiles. Often found in dirty refrigerators and especially in reservoirs where condensation is collected, on moist window frames it can easily be seen covering the whole painted area with a velvety olive green layer.
Health Effects: It is a common allergen. It can cause mycosis. Common cause of extrinsic asthma (immediate-type hypersensitivity: type I). Acute symptoms include edema and bronchiospasms, chronic cases may develop pulmonary emphysema. Illnesses caused by this genus can include phaeohyphomycosis, chromoblastomycosis, hay fever and common allergies.
References: Flannigan, Brian, Robert A. Samson, and J. David Miller, eds. Microorganisms in Home and Indoor Work Environments: Diversity, Health Impacts, Investigation, and Control. London and New York: Taylor & Francis, 2001.

Rusts - From the group Uredinales, called Rusts due to the color of the spores, which are known for causing disease in plants.

Smuts/Myxomycetes - Smuts and Myxomycetes are parasitic plant pathogens. They are typically grouped together due to their association with plants, the outdoors and because they share similar microscopic morphology.
Health Effects: Can produce type I fungal hypersensitivity reactions.
References: Martin, G.W., C.J. Alexopoulos, and M.L. Farr. The Genera of Myxomycetes. Iowa City, Iowa: University of Iowa Press, 1983.

Conclusions/Recommendations

The samples in this report do not indicate elevated concentrations of aerosolized mold spores detected in the breathable air space of the test locations.

However, several rooms still need attention. This is mainly due to water stained or discolored ceiling tiles, dust and debris on convector units or diffusers, water damage behind sinks, and elevated levels of CO2. Please refer to all the recommendations listed above.

I hope you found our service beneficial. If you have any questions or concerns, please feel free to contact me at 410-867-6262.

Respectfully,

Zack Butcher (CIE)
Environmental Solutions, Inc.

Industry References

Since the 1993 New York City Department of Health (NYCDOH) document (Assessment and remediation of *Stachybotrys Atra* in Indoor Environments) was produced, several other guidance documents have been written. This report was developed in accordance with and including:

- *Fungal Contamination in Buildings: A Guide to Recognition and Management* (Health Canada, 1995).
- *Control of Moisture Problems Affecting Biological Indoor Air Quality* (Flannigan and Morey, 1996).
- *Bioaerosols: Assessment and Control* (American Conference of Government Industrial Hygienists [ACGIH], 1999).
- *Guidelines on Assessment and Remediation of Fungi in Indoor Environments* (NYCDOH, 2000). [external link]
- *Mold Remediation in Schools and Commercial Buildings* (U.S. EPA, 2001).
- *Report of the Microbial Growth Task Force* (The American Industrial Hygiene Association, 2001).
- *Fungal Contamination: A manual for investigation, remediation and control (BECi) 2005*.
- *29 CFR 1910, Occupational Safety and Health Standards for General Industry, U.S. Department of Labor*
- Institute of Inspection, Cleaning and Restoration Certification Standard IICRC S520 *29 CFR 1926, Occupational Safety and Health Standards for the Construction Industry*, U.S. Department of Labor
- *40 CFR 61, National Emission Standards for Hazardous Air Pollutants (NESHAP), U.S. Environmental Protection Agency*
- *ACR 2006, Assessment, Cleaning and Restoration of HVAC Systems, National Air Duct Cleaners Association, 2006**
- *ASHRAE Standards 62.1 or 62.2*
- *ASTM D-1653, Standard Test Methods for Water Vapor Transmission of Organic Coating Films*
- *Bioaerosols: Assessment and Control,* American Conference of Governmental Industrial Hygienists, 1999
- *Field Guide for Determination of Biological Contaminants in Environmental Samples, American Industrial Hygiene Association, 2005*
- *A Guide for Mold Remediation in Schools and Commercial Buildings, US Environmental Protection Agency, 2001 Protecting the Built Environment: Cleaning for Health, Michael A. Berry Ph.D., 1993*
- *IICRC S100 Standard and Reference Guide for Professional Carpet Cleaning, Fourth Edition, Institute of Inspection, Cleaning and Restoration Certification, (S100)**
- *IICRC S300 Standard and Reference Guide for Professional Upholstery Cleaning, First Edition, Institute of Inspection, Cleaning and Restoration Certification, (S300)**
- *ANSI/IICRC S500 Standard and Reference Guide for Professional Water Damage Restoration, Third Edition, Institute of Inspection, Cleaning and Restoration Certification, (S500)**