1818 New York Ave. NE, Ste 231, Washington, DC 20002

Telephone: (301) 595-3783 www.salutinc.com

March 9, 2021

Prince George's County Public Schools Environmental Safety Office 13306 Old Marlboro Pike Upper Marlboro, MD 20772

Attention: Alex Baylor

alex.baylor@pgcps.org

Subject: Indoor Air Quality Survey

James H. Harrison Elementary School

13200 Larchdale Road #1744

Laurel, MD 20708

Mr. Baylor:

On January 26, 2021 and March 4, 2021 a Soil and Land Use Technology, Inc. (SaLUT) Industrial Hygienist conducted an indoor air quality (IAQ) evaluation at James H. Harrison Elementary School, a property maintained by Prince George's County Public Schools (PGCPS) located at 13200 Larchdale Road #1744, Laurel, MD 20708. The inspection was performed in accordance with PGCPS contract number IFB 022-19.

Corrective Measures Implemented by PGPCS

On March 04, 2021, as part of this assessment, SaLUT conducted the IAQ evaluation, including IAQ instrumentation screening, and observations in affected areas. Prior to this assessment, in response to an initial assessment, PGPCS implemented the following corrective measures in Classroom 13:

- 1. Identify and clearly assess the affected area;
- 2. Remove and replace moldy and stained ceiling tiles;
- 3. Thorough cleanup throughout the affected areas;
- 4. Operate air scrubbers with HEPA filters in the impacted areas;
- 5. Monitor and evaluate clean-up operation to determine effectiveness.

<u>Methodology</u>

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.

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 James H. Harrison Elementary School, visited on January 26, 2021 and March 4, 2021, respectively.

Table 1.1-Observations

Location	Summary of Observations 01-26-2021
Classroom 13	2'x2' ceiling tiles and 12"x 12" tile floor;
	No visual signs of microbial growth;
	Mild odor;
	No visible dust on floor/other furniture surfaces;
	Visible dust around ventilator;
	Central AC.
Classroom 19	2'x2' ceiling tiles and 12"x 12" tile floor;
	No visual signs of microbial growth;
	Mild odor;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
	Central AC.
Main Office	2'x4' ceiling tiles and 12"x 12" tile floor;
	No visual signs of microbial growth;
	Mild odor;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
	Central AC.
Building Main Lobby	2'x2' ceiling tiles and 12"x 12" tile floor;
,	No visual signs of microbial growth;
	Mild odor;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
	Central AC.
Multi-Purpose Room	2'x 2' ceiling tiles and 12"x 12" tile floor;
_	No visual signs of microbial growth;
	Mild odor;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;



Location	Summary of Observations 01-26-2021
	Central AC.
Kitchen	Unfinished ceiling and 6"x6" tile floor; No visual signs of microbial growth, and no odor;
	No visible dust on floor/other furniture surfaces; No visible dust around ventilator; Central AC.
Media Center	2'x2' ceiling tiles and 12"x 12" tile floor; No visual signs of microbial growth; Mild odor; No visible dust on floor/other furniture surfaces; No visible dust around ventilator; Central AC.
Gymnasium	Perforated ceiling and 1'x1' floor tile; No visual signs of microbial growth; Mild odor; No visible dust on floor/other furniture surfaces; No visible dust around ventilator; Central AC.
Outside Exterior EV Sample	Sunny and windy

Table 1.2-Observations

Location	Summary of Observations 03-04-2021
Classroom 13	2'x2' ceiling tiles and 1'x1' tile floor;
	No visual signs of microbial growth, and no odor;
	No visible dust around ventilator.
Outside Exterior EV Sample	Sunny, windy, chilly and clear sky

Measurements of Indoor Environmental Quality Parameters

Table 2 depicts a summary of average measurements of comfort.

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 lower than the ASHRAE recommended ranges in the representative spaces.



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 CO_2 upper limit is the prevailing outdoor CO_2 concentration plus 700 parts per million (ppm). On January 26, the outdoor (building exterior) CO_2 concentration was approximately 413 ppm therefore indoor concentrations should not exceed approximately 1,113 ppm (700 + 413). The maximum average interior CO_2 concentration detected was 484 ppm in the Gymnasium, a range within the ASHRAE recommendations, per Table 2.1 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 2.1 below.

Table 2.1: James H. Harrison Elementary School-Instrumental Screening Levels January 26, 2021 (9:30 AM-11:30 AM)

Sample Location	Temp ⁰ F	RH%	CO ppm	CO ₂ ppm
Standards	ASHRAE	ASHRAE	NAAQS	ASHRAE
	68 to 75°F*	<65%	9	1,113
Classroom 13	56.2	42.7	0	450
Classroom 19	55.4	40.6	0	467
Main Office	61.7	34.9	0	462
Building Main Lobby	60.0	36.0	0	469
Multipurpose Room	67.9	29.3	0	475
Kitchen	67.9	29.3	0	466
Media Center	67.0	29.8	0	448
Gymnasium	67.9	36.7	0	484
Outside Exterior EV Sample	43.6	60.8	0	413

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

* - Winter Comfort Range



Table 2.2: James H. Harrison Elementary School-Instrumental Screening Levels March 4, 2021 (9:30 AM-11:30 AM)

Sample Location	Temp	RH%	СО	CO ₂
	⁰ F		ppm	ppm
Standards	ASHRAE	ASHRAE	NAAQS	ASHRAE
	68 to 75°F*	<65%	9	1,160
Classroom 13	59.8	20.4	0	529
Outside Exterior EV Sample	33.2	36.1	0	460

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

* - Winter 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.

Table 3.1: Summarizes airborne mold spore sampling results and locations. On January 26, 2021, total mold counts in representative samples (spore count/m³ of air) in all the areas inspected were lower than the outdoor concentrations with the exception of Classroom 13. Laboratory analysis follows this report (see attachment).

Table 3.2: Summarizes airborne mold spore sampling results and locations. On March 4, 2021, total mold counts in representative samples (spore count/m³ of air) in Classroom 13 were non-existent. Laboratory analysis follows this report (see attachment).



Table 3.1: James H. Harrison Elementary School Measurements of Mold-in-Air Samples January 26, 2021 (9:30 AM-11:30 AM)

Spore Types	Classroom 13	Classroom 19	Main Office	Building Main Lobby	Multipurpose Room
Alternaria (Ulocladium)	-	-	-	-	-
Ascospores	-	-	-	-	-
Aspergillus/Penicillium	1,000	40	40	40	40
Basidiospores	40	40	-	-	100
Bipolaris++	-	-	-	-	-
Chaetomium	-	-	-	-	-
Cladosporium	40	-	-	-	90
Curvularia	-	-	-	-	-
Ерісоссит	10*	-	-	-	-
Fusarium	-	-	-	-	-
Ganoderma	-	-	-	-	-
Myxomycetes++	40	-	-	-	-
Pithomyces++	-	-	-	-	-
Rust	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-
Zygomycetes	-	-	-	-	-
Nigrospora	-	-	-	-	-
Hyphal Fragment	-	-	-	-	-
Insect Fragment	-	-	-	-	-
Pollen	-	-	-	40	-
Total Fungi	1,130	80	40	80	230

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

⁺⁺Includes other spores with similar morphology.



Table 3.1: James H. Harrison Elementary School Measurements of Mold-in-Air Samples continued January 26, 2021 (9:30 AM-11:30 AM)

Spore Types	Gymnasium	Kitchen	Media Center	Outside Exterior EV Sample	Field Blank
Alternaria (Ulocladium)	-	-	-	-	
Ascospores	-	40	-	100	
Aspergillus/Penicillium	480	300	570	300	
Basidiospores	200	-	10*	90	
Bipolaris++	-	-	-	-	
Chaetomium	-	-	-	-	
Cladosporium	-	40	300	-	
Curvularia	-	-	-	-	
Ерісоссит	-	-	-	-	
Fusarium	-	-	-	-	
Ganoderma	-	-	-	-	
Myxomycetes++	-	-	-	-	
Pithomyces++	-	-	-	-	
Rust		-	-	-	
Scopulariopsis/Microascus	-	-	-	-	
Stachybotrys/Memnoniella	-	-	-	-	
Unidentifiable Spores	-	-	-	-	
Zygomycetes	-	-	-	-	
Nigrospora	-	-	-	-	
Hyphal Fragment	10*	-	40	40	
Insect Fragment	-	-	10*	-	
Pollen	-	-	-	-	
Total Fungi	670	380	930	530	No Trace

^{*}Spore Counts per cubic meter of air (Counts/ m^3).

⁺⁺Includes other spores with similar morphology.



Table 3.2: James H. Harrison Elementary School Measurements of Mold-in-Air Samples continued March 04, 2021 (9:30 AM-11:30 AM)

	viuicii 01, 2021 (5.8		
Spore Types	Classroom 13	Outside Exterior EV Sample	Field Blank
	Classicolii 13	Sample	Tield Blank
Alternaria (Ulocladium)	-	-	-
Ascospores	-	-	-
Aspergillus/Penicillium	-	-	-
Basidiospores	-	-	-
Bipolaris++	-	-	-
Chaetomium	-	-	-
Cladosporium	-	-	-
Curvularia	-	-	-
Ерісоссит	-	-	-
Fusarium	-	-	-
Ganoderma	-	-	-
Myxomycetes++	-	-	-
Pithomyces++	-	-	-
Rust	-	-	-
Scopulariopsis/Microascus	-	-	-
Stachybotrys/Memnoniella	-	-	-
Unidentifiable Spores	-	-	-
Zygomycetes	-	-	-
Nigrospora	-	-	-
Hyphal Fragment	-	-	-
Insect Fragment	-	-	-
Pollen	-	-	-
Total Fungi	No Trace	No Trace	No Trace

^{*}Spore Counts per cubic meter of air (Counts/ m^3).

⁺⁺Includes other spores with similar morphology.



Findings and Conclusions

The comfort parameters (i.e., temperature, RH, CO₂, and CO levels) in the representative areas conform to ASHRAE and/or NAAQS guidelines with the exception of the temperature. On January 26, 2021 total mold counts in representative area samples (spore count/m³ of air) in all the areas inspected were lower than the outdoor concentrations with the exception of Classroom 13, indicating amplified mold growth.

On March 4, 2021, total mold counts in air samples (spore count/m³ of air) in Classroom 13 were non-existent, indicating no amplified mold growth. Based on the observations, mold spore results, and the results of the indoor air quality parameters tested, the corrective actions implemented were determined to be effective.

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,

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 Order: 192102004 Customer ID: SALU50

Customer PO: Project ID:

 Attention:
 Indika Jayatilake
 Phone: (301) 595-3783

 SaLUT
 Fax: (301) 595-3787

1818 New York Avenue, NE Collected Date: 03/04/2021

Suite 231 Received Date: 03/04/2021 04:44 PM

Washington, DC 20002 Analyzed Date: 03/08/2021

Project: JAMES HARRISON ES/PGCPS IAQ

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:		92102004-0001 1J			ai Microscopy (M 192102004-0002 2J			92102004-0003 3J		
Volume (L):		75			75			33		
Sample Location:		CLASSRM 13		l OUTSIDE	EXTERIOR EV S	AMPI F		FIELD BLANK		
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	-	-	-	-	-	-	-	-	-	
Basidiospores	-	-	-	-	-	-	-	-	-	
Bipolaris++	-	-	-	-	-	-	-	-	-	
Chaetomium	-	-	-	-	-	-	-	-	-	
Cladosporium	-	-	-	-	-	-	-	-	-	
Curvularia	-	-	-	-	-	-	-	-	-	
Epicoccum	-	-	-	-	-	-	-	-	-	
Fusarium	-	-	-	-	-	-	-	-	-	
Ganoderma	-	-	-	-	-	-	-	-	-	
Myxomycetes++	-	-	-	-	-	-	-	-	-	
Pithomyces++	-	-	-	-	-	-	-	-	-	
Rust	-	-	-	-	-	-	-	-	-	
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-	
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-	
Unidentifiable Spores	-	-	-	-	-	-	-	-	-	
Zygomycetes	-	-	-	-	-	-	-	-	-	
Total Fungi	-	None Detect	-	-	None Detect	-	-	No Trace	-	
Hyphal Fragment	-	-	-	-	-	-	-	-	-	
Insect Fragment	-	-	-	-	-	-	-	-	-	
Pollen	-	-	-	-	-	-	-	-	-	
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	0	-	
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	0*	-	
Skin Fragments (1-4)	-	1	-	-	1	-	-	-	-	
Fibrous Particulate (1-4)	-	-	-	-	1	-	-	-	-	
Background (1-5)	-	1	-	-	1	-	-	-	-	

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



Abubakar Barry, Microbiology Laboratory Manager or other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Beltsville, MD AIHA-LAP, LLC-EMLAP Accredited #102891

Initial report from: 03/08/2021 02:52 PM



EMSL Order: 372101217 **Customer ID:** SALU50

Customer PO: Project ID:

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1818 New York Avenue, NE Collected Date: 01/26/2021

Suite 231 Received Date: 01/27/2021 10:20 AM Washington, DC 20002 Analyzed Date: 01/27/2021 - 01/28/2021

Project: 19-035 PGPCS IAQ Services James Harrison ES

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):	372101217-0001 31625925 75			ent Sample ID: 31625925 31625937 Volume (L): 75 75				372101217-0003 31625933 75			
Sample Location:		Main Office			ding Main Lobb			ultipurpose Rm			
Spore Types	Raw Count	Count/M³	% of Total	Raw Count	Count/M ³	% of Total	Raw Count	Count/M³	% of Total		
Alternaria (Ulocladium)	-	-	· -	-	-	-	-	-	-		
Ascospores	-	-	-	-	-	-	-	-	-		
Aspergillus/Penicillium	1	40	100	1	40	100	1	40	17.4		
Basidiospores	-	-	-	-	-	-	3	100	43.5		
Bipolaris++	=	-	-	-	-	-	=	-	-		
Chaetomium	-	-	-	-	-	-	-	-	-		
Cladosporium	-	-	-	-	-	-	2	90	39.1		
Curvularia	-	-	-	-	-	-	-	-	-		
Epicoccum	-	-	-	-	-	-	-	-	-		
Fusarium	-	-	-	-	-	-	-	-	-		
Ganoderma	-	-	-	-	-	-	-	-	-		
Myxomycetes++	-	-	-	-	-	-	-	-	-		
Pithomyces++	-	-	-	-	-	-	-	-	-		
Rust	-	-	-	-	-	-	-	-	-		
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-		
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-		
Unidentifiable Spores	-	-	-	-	-	-	-	-	-		
Zygomycetes	-	-	-	-	-	-	-	-	-		
Total Fungi	1	40	100	1	40	100	6	230	100		
Hyphal Fragment	-	-	-	-	-	-	-	-	-		
Insect Fragment	-	-	-	-	-	-	-	-	-		
Pollen	-	-	-	1	40	-	-	-	-		
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-		
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-		
Skin Fragments (1-4)	-	2	-	-	1	-	-	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 luzzolino, M.S., Laboratory Manager or other Approved Signatory

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



Attention: Indika Jayatilake

SaLUT

Suite 231

EMSL Order: 372101217 Customer ID: SALU50

Customer PO: Project ID:

> Phone: (301) 595-3783 Fax: (301) 595-3787

Collected Date: 01/26/2021

Received Date: 01/27/2021 10:20 AM

Analyzed Date: 01/27/2021 - 01/28/2021

Project: 19-035 PGPCS IAQ Services James Harrison ES

1818 New York Avenue, NE

Washington, DC 20002

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):	372101217-0004 31625963 75			31625963 31626025			372101217-0006 31625951 75			
Sample Location:		Kitchen			Media Center		0	utside 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	10.5	-	-	-	3	100	20.4	
Aspergillus/Penicillium	6	300	78.9	13	570	64.8	7	300	61.2	
Basidiospores	-	-	-	1*	10*	1.1	2	90	18.4	
Bipolaris++	-	-	-	-	-	-	-	-	-	
Chaetomium	-	-	-	-	-	-	-	-	-	
Cladosporium	1	40	10.5	8	300	34.1	-	-	-	
Curvularia	-	-	-	-	-	-	-	-	-	
Epicoccum	-	-	-	-	-	-	-	-	-	
Fusarium	-	-	-	-	-	-	-	-	-	
Ganoderma	-	-	-	-	-	-	-	-	-	
Myxomycetes++	-	-	-	-	-	-	-	-	-	
Pithomyces++	-	-	-	-	-	-	-	-	-	
Rust	-	-	-	-	-	-	-	-	-	
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-	
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-	
Unidentifiable Spores	-	-	-	-	-	-	-	-	-	
Zygomycetes	-	-	-	-	-	-	-	-	-	
Total Fungi	8	380	100	22	880	100	12	490	100	
Hyphal Fragment	-	-	-	1	40	-	-	-	-	
Insect Fragment	-	-	-	1*	10*	-	-	-	-	
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.



Vincent luzzolino, M.S., Laboratory Manager or other Approved Signatory

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



Attention: Indika Jayatilake

SaLUT

Suite 231

EMSL Order: 372101217 Customer ID: SALU50

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> Phone: (301) 595-3783 Fax: (301) 595-3787

Collected Date: 01/26/2021

Received Date: 01/27/2021 10:20 AM

Analyzed Date: 01/27/2021 - 01/28/2021

Project: 19-035 PGPCS IAQ Services James Harrison ES

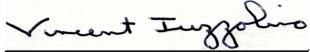
1818 New York Avenue, NE

Washington, DC 20002

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):	372101217-0007 31625926						372101217-0009 31625473 75		
Sample Location:		Field Blank			Gymnasium			Class Room 19	
Spore Types	Raw Count	Count/M³	% of Total	Raw Count	Count/M ³	% of Total	Raw Count	Count/M³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	11	480	70.6	1	40	50
Basidiospores	-	-	-	4	200	29.4	1	40	50
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	-	No Trace	-	15	680	100	2	80	100
Hyphal Fragment	-	-	-	1*	10*	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-		-	-	-	-
Analyt. Sensitivity 600x	-	0	-	-	44	-	-	44	-
Analyt. Sensitivity 300x	-	0*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	-	-	-	1	-	-	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 luzzolino, M.S., Laboratory Manager or other Approved Signatory

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 AlHA-LAP, LLC-EMLAP Accredited #100194



Attention: Indika Jayatilake

SaLUT

Suite 231

EMSL Order: 372101217 Customer ID: SALU50

Customer PO: Project ID:

Phone: (301) 595-3783

Fax: (301) 595-3787

Collected Date: 01/26/2021

Received Date: 01/27/2021 10:20 AM

Analyzed Date: 01/27/2021 - 01/28/2021

Project: 19-035 PGPCS IAQ Services James Harrison ES

1818 New York Avenue, NE

Washington, DC 20002

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:		72101217-0010 31625985 75						·	
Spore Types	Raw Count	Class Room 13 Count/M³	% of Total						
Alternaria (Ulocladium)	Raw Count	Countries	% OI TOLAI	-	·		-		
Ascospores	_	_	_						
Aspergillus/Penicillium	23	1000	88.5	_			_		
Basidiospores	1	40	3.5	_		_	_		
Bipolaris++	· -	-	-	_		_	_		
Chaetomium	-	-	-	_		_	_		
Cladosporium	1	40	3.5	-			-		
Curvularia	-	-	-	_		-	-		
Epicoccum	1*	10*	0.9	-		-	-		
Fusarium	-	-	-	-		-	-		
Ganoderma	-	-	-	-		-	-		
Myxomycetes++	1	40	3.5	-		-	-		
Pithomyces++	-	-	-	-		-	-		
Rust	-	-	-	-		-	-		
Scopulariopsis/Microascus	-	-	-	-		-	-		
Stachybotrys/Memnoniella	-	-	-	-		-	-		
Unidentifiable Spores	-	-	-	-		-	-		
Zygomycetes	-	-	-	-		-	-		
Total Fungi	27	1130	100	-		-	-		
Hyphal Fragment	1	40	-	-		-	-		
Insect Fragment	-	-	-	-		-	-		
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-		-	-		
Analyt. Sensitivity 300x	-	13*	-	-		-	-		
Skin Fragments (1-4)	-	1	-			-	-		
Fibrous Particulate (1-4)	-	1	-	-		-	-		
Background (1-5)	-	2	-		-	-	-	-	-

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



Vincent luzzolino, M.S., Laboratory Manager or other Approved Signatory

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

OrderID: 192102004



Microbiology Chain of Custody EMSL Order Number (Lab Use Only):

Emilia Ordor (tallibor (tab osc oray).	
192102004	PHONE
	່ Fax:

Company Name: SaLUT Inc.					,	EMSL-Bill to: ■ Same ☐ Different If Bill to is Different note instructions in Comments**						
Street: 1818 New	York A	ve NE S	Suite 23	;, 1		,	Third Part	Third Party Billing requires written authorization from third pa				
City: Washington			-	rovince: DC	t			Zip/Postal Code: 20002 Country: USA				
Report To (Name): Indika Jayatilake					- 		1	Telephone #: 301-595-3783				
Email Address: ijayatilake@salutinc.com							Fax #:					
Project Number/Location: James Harrison ES / PGCPS IAQ						Please Provid	de Results:	:	■ Email			
Location Address: 13200 Larchdale Rd, Laurel, MD 20708							· 	• • • • • • • • • • • • • • • • • • • •		Commercial 🔲	Residential	
*Analysis completed							in the Analytical P	rice Guide. 1	TATs are sub	ject to methodolo	gy requirements	
							iocide Used in					
Public	Water	Supply	Sample					*	to DOH if	required by sta	ite.	
Turnaround Ti							-				I == 3.55 .	
☐ 3 Hour	<u> </u>	6 Hour	<u></u>	24 Hour	48	r.s. 3.		96.	Hour	1 Week	☐ 2 Week	
##004 AV- O O-II	-		LLÖ				Test Codes	/AACTA\	I HAZE Code	nea Casan 1Mat	(D/A ***)	
M001 Air-O-Cell			loldSnap				nonas aeruginosa ophic Plate Count			age Screen - Wat age Screen - Wat		
M030 Micro 5			llergence	D-D .	M017 To	otal Co	liform & E. coli (C	olilert	M117 Sew	age Screen - Swa	b (P/A***)	
M041 Fungal Direct E					P/A***)		, , ,		M013 Sew	age Screen - Swa	b (MFT*)	
M169 Pollen ID & En							liform & E. coli (M			nicillin-resistant St	aph. aureus	
M280 Dust Character					(Collect		iliform & E. coli Èn	umeration	(MRSA)	id-growing non-TE	Mycohacteria (
M281 Dust Character M005 Viable Fungi- A				Count	M019 Fe	ecal Co	oliform (MFT*)		Detection 8	& Enumeration	Wycopaciena	
M006 Viable Fungi- A					M020 Fe	ecal St	reptococcus (MFT	· ·	M014 Ende	otoxin Analysis		
Aspergillus, Cladospo	orium, S	tachybotr	vs Speci	les ID & Count)			occi (MFT*)			up Allergen (Cat, D	og, Cockroach,	
M007 Culturable fung	ji - Surfa	ice Samp	les (Gen	rus ID & Count)			occi (Enterolert P/		Dust Mite)	Analidical Déco	Cuido.	
M008 Culturable fund					Panel	M180 Real Time qPCR-ERMI 36 Other See A				Analytical Price Guide Analysis Please use EMSL		
Penicillium, Aspergille ID & Count)	us, Ciad	osponum	, Stacnyi	botrys Species		ewage	Screen -Water (N	/FT*)	Legionella COC			
M009 Bacteria Cultur	re Gram	Stain & C	Count			_	<u> </u>	,				
M010 Bacteria Count	& ID - 3	3 Most Pro	ominent				ane Filtration Tech	nnique	100	?/ ·		
HIDAA DAAGA A	. .					Most	Probable Number		X /	,		
M011 Bacteria Count									X/7/	"		
M012 Pseudomonas	aerugin	osa (P/A*	**)				nce/Absence		XX	· · · · · · · · · · · · · · · · · · ·	· · · · ·	
	aerugin		**)				nce/Absence Signature of S	Sampler:		· · · · · · · · · · · · · · · · · · ·	Zamnorativa	
M012 Pseudomonas	aerugin Ju	osa (P/A* de Fons	eka	Description		Preser ole	Signature of S Potable/ NonPotable (only for	Sampler: Test Code	Volume/ Area	Date/Time Collected	Temperature' ('C) (Lab Use Only)	
M012 Pseudomonas Name of Sampler	aerugin Ju	osa (P/A* de Fons	eka	Description	***P/A=	Preser ole	Signature of S Potable/ NonPotable	Test			(C) ∴	
M012 Pseudomonas Name of Sampler Sample #	aerugin Ju	osa (P/A* de Fons ample Lo	eka		***P/A=	Preser	Signature of S Potable/ NonPotable (only for waters)	Test			(C): (Lab Use	
M012 Pseudomonas Name of Sampler Sample #	aerugin Ju S	osa (P/A* de Fons ample Lo Cla	eka ecation/E		***P/A=	Preser ole e	Signature of S Potable/ NonPotable (only for waters)	Test Code	Area	Collected	(C): (Lab Use	
M012 Pseudomonas Name of Sampler Sample #	aerugin Ju S	osa (P/A* de Fons ample Lo Cla	eka ecation/E	n 13 EV Sample	Samp Type	Preser ple e	Signature of S Potable/ NonPotable (only for waters)	Test Code M001	Area 75L	3/4/2021	(C): (Lab Use	
M012 Pseudomonas Name of Sampler Sample #	aerugin Ju S	osa (P/A* de Fons ample Lo Cla	eka ecation/E assroom	n 13 EV Sample	Samp Type Air	Preser ple e	Signature of S Potable/ NonPotable (only for waters)	Test Code M001	75L 75L	3/4/2021	(C): (Lab Use	
M012 Pseudomonas Name of Sampler Sample #	aerugin Ju S	osa (P/A* de Fons ample Lo Cla	eka ecation/E assroom	n 13 EV Sample	Samp Type Air	Preser ple e	Signature of S Potable/ NonPotable (only for waters)	Test Code M001	75L 75L	3/4/2021	(C): (Lab Use	
M012 Pseudomonas Name of Sampler Sample #	aerugin Ju S	osa (P/A* de Fons ample Lo Cla	eka ecation/E assroom	n 13 EV Sample	Samp Type Air	Preser ple e	Signature of S Potable/ NonPotable (only for waters)	Test Code M001	75L 75L	3/4/2021	(C): (Lab Use	
M012 Pseudomonas Name of Sampler Sample #	aerugin Ju S	osa (P/A* de Fons ample Lo Cla	eka ecation/E assroom	1 13 EV Sample	Samp Type Air	Preser ple e	Signature of S Potable/ NonPotable (only for waters)	Test Code M001	75L 75L	3/4/2021	(C): (Lab Use	
M012 Pseudomonas Name of Sampler Sample #	aerugin	osa (P/A* de Fons ample Lo Cla	eka ecation/E assroom	n 13 EV Sample nk	Samp Type Air	Preser	Signature of S Potable/ NonPotable (only for waters)	Test Code M001 M001 N/A	75L 75L N/A	3/4/2021	(C) (Lab Use Only)	
M012 Pseudomonas Name of Sampler Sample # 1 J 2 J 3 J Client Sample # (see Relinquished (Client)	aerugin S S C C ent):	osa (P/A* de Fons ample Lo Cla Outside E	eka cation/C assroom exterior E ield Bla	n 13 EV Sample nk	Samp Type Air Air	Preser	Signature of S Potable/ NonPotable (only for waters)	Test Code M001 M001 N/A	75L 75L N/A	3/4/2021 3/4/2021 5/4/2021 5/4/2021 5/4/2021 5/4/2021 5/4/2021 5/4/2021	(C) (Lab Use Only)	
M012 Pseudomonas Name of Sampler Sample # 1 J 2 J 3 J Client Sample # (see Relinquished (Client)	aerugin S S C C ent):	osa (P/A* de Fons ample Lo Cla Outside E	eka cation/C assroom exterior E ield Bla	n 13 EV Sample nk	Samp Type Air Air Air	Preser	Signature of S Potable/ NonPotable (only for waters) ples: 03	Test Code M001 M001 N/A	75L 75L N/A	3/4/2021 3/4/2021 5/4/2021 5/4/2021 5/4/2021 5/4/2021 5/4/2021 5/4/2021	(C) (Lab Use Only)	
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M012 Pseudomonas Name of Sampler: Sample # 1 J 2 J 3 J Client Sample # (s Relinquished (Client Received (Lab):	aerugin S S S C C Ent):	osa (P/A* de Fons ample Lo Cla Dutside E	eka ocation/C assroom exterior E ield Bla	n 13 EV Sample nk	Samp Type Air Air Air	Preser Dile e Samp	Signature of S Potable/ NonPotable (only for waters) ples: 03	Test Code M001 M001 N/A	75L 75L N/A Received	3/4/2021 3/4/2021 3/4/2021 Chilled? Yes	(C) (Lab Use Only)	
M012 Pseudomonas Name of Sampler: Sample # 1 J 2 J 3 J Client Sample # (s Relinquished (Client Received (Lab):	aerugin S S S C C Ent):	osa (P/A* de Fons ample Lo Cla Dutside E	eka ocation/C assroom exterior E ield Bla	n 13 EV Sample nk	Samp Type Air Air Air	Preser Dile e Samp	Signature of S Potable/ NonPotable (only for waters) ples: 03	Test Code M001 M001 N/A	75L 75L N/A Received	3/4/2021 3/4/2021 Chilled? Yes /	(C) (Lab Use Only)	
M012 Pseudomonas Name of Sampler: Sample # 1 J 2 J 3 J Client Sample # (s Relinquished (Client Received (Lab):	aerugin S S S C C Ent):	osa (P/A* de Fons ample Lo Cla Dutside E	eka ocation/C assroom exterior E ield Bla	n 13 EV Sample nk	Samp Type Air Air Air	Preser Dile e Samp	Signature of S Potable/ NonPotable (only for waters) ples: 03	Test Code M001 M001 N/A	75L 75L N/A Received	3/4/2021 3/4/2021 The Chilled? Yes /	CO Use (Lab Use Conly) For NISI A INTYTICATION	
M012 Pseudomonas Name of Sampler: Sample # 1 J 2 J 3 J Client Sample # (s Relinquished (Client Received (Lab):	aerugin S S S C C Ent):	osa (P/A* de Fons ample Lo Cla Dutside E	eka ocation/C assroom exterior E ield Bla	n 13 EV Sample nk	Samp Typo Air Air	Samp Dat	Signature of S Potable/ NonPotable (only for waters) ples: 03	Test Code M001 M001 N/A	75L 75L N/A Received	3/4/2021 3/4/2021 SVIII	COUSE (Lab Use (Only) PEOINT RECEIVED	
M012 Pseudomonas Name of Sampler: Sample # 1 J 2 J 3 J Client Sample # (s Relinquished (Client Received (Lab):	aerugin S S S C C Ent):	osa (P/A* de Fons ample Lo Cla Dutside E	eka ocation/C assroom exterior E ield Bla	n 13 EV Sample nk	Samp Type Air Air Air	Samp Dat	Signature of S Potable/ NonPotable (only for waters) ples: 03	Test Code M001 M001 N/A	75L 75L N/A Received	3/4/2021 3/4/2021 Chilled? Yes /	COUSE (Lab Use (Only) PEOINT RECEIVED	
M012 Pseudomonas Name of Sampler Sample # 1 J 2 J 3 J Client Sample # (s Relinquished (Client Received (Lab):	s: Ju s s): ent):	osa (P/A* de Fons ample Lo Cla Dutside E Fi	eka ocation/C assroom xterior E ield Bla	n 13 EV Sample nk	Samp Typo Air Air	Samp Dat	Signature of S Potable/ NonPotable (only for waters) ples: 03	Test Code M001 M001 N/A	75L 75L N/A Received	3/4/2021 3/4/2021 SVILLE SVILL	COUSE (Lab Use (Only) PEOINT RECEIVED	

OrderID: 372101217



Microbiology Chain of Custody EMSL Order Number (Lab Use Only):

LIVIOL MIDIYUVAI, IIIV.	
10768 Baltimore Avenue	ļ

Beltsville, MD 20705 PHONE: (301) 937-5700

IUNE.	(301)	201-0100
FAX:	(301)	937-5701

Company Name: SaLUT				: VSame	Different	
Street: 1818 New York Avenue, NE Suit	Third Party Billing requires written authorization from third party.					
City: Washington State/Pro	Zip/Postal Code: 20002 Country: US					
Report To (Name): Indika Jayatilake		Telephone #: 301-595-3783				
Email Address: ijayatilake@salutinc.com	Fax #: 301-595-3	787		Purchase 0	rder:	
Project Name/Number: 19-035 PGPCS IAQ Services	James Harrison ES	Please Provide Re	esults:	∏ Fax d∑	(Email	
U.S. State Samples Taken: MD	Project Zip Code:					Residential
Sterile, Sodium Thiosulfa						
Public Water Supply Samples: Note: All results may automatically be reported to DOH if required by state. Turnaround Time (TAT) Options - Please Check						tate.
	4 Hour 3 48 Hour	72 Hour		6 Hour	1 Week	2 Week
	لحصيم وتتبار والمساوو	y Test Codes		 -	L] 1 1100K	1 2 44031
M001 Air-O-Cell M174 MoldSnap M030 Micro 5 M032 Allergenco-D M041 Fungal Direct Examination M169 Pollen iD & Enumeration M280 Dust Characterization Level-1 M281 Dust Characterization Level-2 M005 Viable Fungi- Air Samples (Genus ID & Cor M006 Viable Fungi- Air Samples (Includes Penicil Aspergillus, Cladosporium, Stachybotrys Species Count) M007 Culturable fungi - Surface Samples (Genus Count) M008 Culturable fungi - Surface Samples (Include Penicillium, Aspergillus, Cladosporium, Stachybot Species ID & Count) M009 Bacteria Culture Gram Stain & Count M010 Bacteria Count & ID - 3 Most Prominent M011 Bacteria Count & ID - 5 Most Prominent M011 Bacteria Count & ID - 5 Most Prominent	monas aeruginosa (P/A***) monas aeruginosa (MFT*) pophic Plate Count liform & E. coli (Colliert P/A***) M133 liform & E. coli Enumeration oliform (MFT*) M133 liform (MFT*) M133 liform (MFT*) M034 locci (MFT*) locci (MFT*) M24 locci (Enterolert P/A***) M25 locci (Priterolert P/A***) M26 Screen –Water (MFT*) Legic			1115 Sewage Screen - Water (P/A***) 1116 Sewage Screen - Water (MPN**) 1117 Sewage Screen - Swab (P/A***) 1013 Sewage Screen - Swab (MFT*) 1133 Methicillin-resistant Staph. aureus MRSA) 1031 Rapid-growing non-TB Mycobacteria 1014 Endotoxin Analysis 1044 Group Aliergen (Cat, Dog, Cockroach, 1014 Endotoxin Analysis 1044 Group Aliergen (Cat, Dog, Cockroach, 1014 Endotoxin Analysis 1044 Group Aliergen (Cat, Dog, Cockroach, 1014 Endotoxin Analysis 1044 Group Aliergen (Cat, Dog, Cockroach, 1054 Group Aliergen (Cat, Dog, Cockroach, 1054 Group Aliergen (Cat, Dog, Cockroach, 1054 Group Aliergen (Cat, Dog, Cockroach, 1055 Group Aliergen (Cat, Dog, Cockroach, 1056 Group Aliergen (Cat, Dog, Cockroach, 1057 Group Aliergen (Cat, Dog, Cockroach, 105		
Sample # .Sample Location/Desc	ription Sample Type	Potable/ NonPotable (Only for Waters)	Test Code	Volume/ Area	Date/Time Collected	Temperature (C) (Lab Use Only)
Example A1 Kitchen Sink/Tap Wat		P		100 mL	9/1/13 4:00 PM	
Client Sample # (s):	Total # of S	Samples: 10	Sample (s Received Lab Use Only	i Chilled?	Yes / No
	ign of		4 4 4 4 4 4 4			
Received (Lab):	B / Drup Bol	(Date: 1/2'61	121	Time:		<u>M</u>
Comments/Special Instructions:	' Els	1/2 7/21		10:200		

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this chain of custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

Controlled Document - COC-34 Micro R8 11/14/2017



Microbiology Chain of Custody EMSL Order Number (Lab Use Only):



EMSL Analytical, Inc. 10768 Baltimore Avenue

Beltsville, MD 20705

PHONE: (301) 937-5700

FAX: (301) 937-5701

Additional pages of the chain of custody are only necessa	rv if needed for additional sample information.
	the transfer and the tr

Sample #	Sample Location/Description	Sample Type	Potable/ NonPotable (Only for Waters)	Test Code	Volume/ Area	Date/Time Collected	Temperature ('C) (Lab Use Only)
3162 5425	Main Office	Air	□P □NP	Moul	75 l	1/26/71	
3/62 5937	Building Main Lobby	Air	□P □NP	Moul	75 L	1/26/21	
3/62 5933	Multi purpose RM	Air	□ P □NP	Mool	756	1/28/21	
3162 5963	Kitchen	Air	☐P □NP	Mwl	756	1/16/21	14:30. -1 2:7
1162 60.25	Media Center	Air	☐P □NP	Noul	75 l	1/18/21	
31625951	Outside Sample	Air	□ P □NP	Moul	756	1/26/21	
3162 5926	Field Blank		□ P □NP	Movi	756	1/26(2)	
3162 5957	Gymnasium	Air	□ P □NP	Moul	75l	1126/21	
31625473	Class Room 19	Air	□ P □NP	Mode	752	1/20/21	
3162 5985	Class Room 13	Air	□P □NP	Moul	756	1/26/21	
1132 7205			☐ P ☐NP				
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Comments/Special	Instructions:		□P □NP	<u> </u>		<u></u>	

Page _2 EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this chain of custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

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