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

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

March 1, 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

Longfields Elementary School

3300 Newkirk Ave. Forestville, MD 20747

Mr. Baylor:

On November 20, 2020 and February 15, 2021 a Soil and Land Use Technology, Inc. (SaLUT) Industrial Hygienist conducted an indoor air quality (IAQ) evaluation at Longfields Elementary School, a property maintained by Prince George's County Public Schools (PGCPS) located at 3300 Newkirk Avenue, Forestville, MD 20747. The inspection was performed in accordance with PGCPS contract number IFB 022-19.

Corrective Measures Implemented by PGPCS

On February 15, 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, DGS implemented the following corrective measures in the Multipurpose Room:

- 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.



Methodology

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

Air-borne fungal spore samples were collected on *Air-O-Cell* cassettes using a Buck BioAire calibrated pump. The air samples were taken between three and five feet from the ground. In tandem with collecting mold samples, real-time readings for carbon dioxide, carbon monoxide, temperature and relative humidity were collected using a Fluke 975 Air Meter in representative areas within the facility.

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 Longfields Elementary School, visited on November 20, 2020 and February 15, 2021.repectively.

Table 1.1-Observations

Location	Summary of Observations 11-20-2020						
Cafeteria	2'x4' ceiling tiles and 1'x1' 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.						
Hallway next to	2'x4' ceiling tiles and 9"x9" tile floor;						
Classroom 9	No visual signs of microbial growth, and no odor;						
	No visible dust on floor/other furniture surfaces;						
	No visible dust around ventilator;						
	Central AC.						
Hallway next to	2'x4' ceiling tiles and 1'x1' tile floor;						
Classroom 14	No visual signs of microbial growth, and no odor;						
	No visible dust on floor/other furniture surfaces;						
	No visible dust around ventilator;						
	Central AC.						
Hallway next to	2'x4' ceiling tiles and 9"x9" tile floor;						
Reading Room	No visual signs of microbial growth, and no odor;						
	No visible dust on floor/other furniture surfaces;						
	No visible dust around ventilator;						
	Central AC.						



Location	Summary of Observations 11-20-2020
Hallway next to Stage	2'x4' ceiling tiles and 9"x9"/1'x1' tile floor;
Door	No visual signs of microbial growth, and no odor;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
	Central AC.
Outside Exterior EV	Windy
Sample	

Table 1.2-Observations

Location	Summary of Observations
	02-15-2021
Multipurpose Room	2'x4' ceiling tiles and 1'x1' tile floor;
	No visual signs of microbial growth, and no odor;
	Stained ceiling tiles were replaced;
Outside Exterior EV	It was sunny, windy, chilly and clear sky
Sample	

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 CO₂ upper limit is the prevailing outdoor CO₂ concentration plus 700 parts per million (ppm). On November 20,2020, the outdoor (building exterior) CO₂ concentration was approximately 439 ppm therefore indoor concentrations should



not exceed approximately 1,139 ppm (700 + 439). The maximum average interior CO₂ concentration detected was 576 ppm in the Cafeteria, 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: Longfields Elementary School, Instrumental Screening Levels November 20, 2020 (9:30AM-11:30 AM)

Sample Location	Temp ⁰ F	RH%	CO ppm	CO ₂ ppm
Standards	ASHRAE 68 to 75°F*	ASHRAE <65%	NAAQS 9	ASHRAE 1,139
Multipurpose Room	64.4	33.0	0	576
Hallway next to Classroom 9	64.4	35.0	0	472
Hallway next to Classroom 14	63.5	34.9	0	520
Hallway next to Reading Room	63.5	35.7	0	500
Hallway next to Stage door	62.6	35.9	0	474
Outside Exterior EV Sample	50.9	47.4	0	439

Table 2.2: Longfields Elementary School, Instrumental Screening Levels February 15, 2021 (9:30AM-11:30 AM)

	Temp		CO	CO ₂
Sample Location	$^{0}\mathbf{F}$	RH%	ppm	ppm
Standards	ASHRAE 68 to 75°F*	ASHRAE <65%	NAAQS 9	ASHRAE 1,139
Multipurpose Room	70.7	27.5	0	518
Outside Exterior EV Sample	57.2	44.6	0	490

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.

Tables 3.1: summarizes airborne mold spore sampling results and locations. On November 20, 2020, 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 the multipurpose room . Laboratory analysis follows this report (see attachment). Furthermore,

Tables 3.2: Summarizes airborne mold spore sampling results and locations. On February 15, 2021, total mold counts in representative samples (spore count/m3 of air) in all the areas inspected were lower than the outdoor concentrations. Laboratory analysis follows this report (see attachment).

Table 3.1: Longfields Elementary School - Measurements of Mold-in-Air Samples November 20, 2020 (9:30 AM-11:30 AM)

Spore Types	multipurpose room	Hallway next to Classroom 9	Hallway next to Classroom 14	Hallway next to Reading Room
Alternaria (Ulocladium)	-	-	-	-
Ascospores	-	-	10*	40
Aspergillus/Penicillium	3,200	-	-	40
Basidiospores	100	-	80	200
Bipolaris++	-	-	-	-
Chaetomium	-	-	-	-
Cladosporium	-	-	200	40
Curvularia	-	-	-	-
Ерісоссит	-	-	-	10*
Fusarium	-	-	-	-
Ganoderma	-	-	-	-
Myxomycetes++	-	-	10*	-
Pithomyces++	-	-	-	-
Rust	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-
Unidentifiable Spores	-	-	-	-
Zygomycetes	-	-	-	-
Nigrospora	-	-	-	-
Hyphal Fragment	10*		-	-
Insect Fragment	-		-	-
Pollen	-	-	-	-
Total Fungi	3,300	None detect	300	330

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

 $⁺⁺ Includes \ other \ spores \ with \ similar \ morphology.$



Table 3.1: Longfields Elementary School Measurements of Mold-in-Air Samples continued November 20, 2020 (9:30 AM-11:30 AM)

Spore Types	Hallway next to Stage door	Outside Exterior EV Sample	Field Blank	
Alternaria (Ulocladium)	-	1	-	
Ascospores	-	-	-	
Aspergillus/Penicillium	-	40	-	
Basidiospores	80	200	-	
Bipolaris++	-	-	-	
Chaetomium	-	-	-	
Cladosporium	-	680	-	
Curvularia	-	-	-	
Ерісоссит	-	-	-	
Fusarium	-	-	-	
Ganoderma	-	-	-	
Myxomycetes++	-	-	-	
Pithomyces++	-	-	-	
Rust	-	40	-	
Scopulariopsis/Microascus	-	-	-	
Stachybotrys/Memnoniella	-	-	-	
Unidentifiable Spores	-	-	-	
Zygomycetes	-	-	-	
Nigrospora	-	-	-	
Hyphal Fragment	-	10*	-	
Insect Fragment	-	-	-	
Pollen	-	-	-	
Total Fungi	80	1,000	No Trace	

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

Table 3.2: Longfields Elementary School Measurements of Mold-in-Air Samples continued February 15, 2021 (9:30 AM-11:30 AM)

Spore Types	multipurpose room	Outside Exterior EV Sample	Field Blank
Alternaria (Ulocladium)	-	-	-
Ascospores	-	100	-
Aspergillus/Penicillium	80	40	-
Basidiospores	10*	970	-
Bipolaris++	-	-	-
Chaetomium	-	-	-
Cladosporium	-	10*	-
Curvularia	-	-	-
Ерісоссит	-	-	-
Fusarium	-	-	-
Ganoderma	-	-	-

⁺⁺Includes other spores with similar morphology.

Myxomycetes++	-	40	-
Pithomyces++	-	-	-
Rust	-	-	-
Scopulariopsis/Microascus	-	-	-
Stachybotrys/Memnoniella	-	-	-
Unidentifiable Spores	-	-	-
Zygomycetes	-	-	-
Nigrospora	-	-	-
Hyphal Fragment		-	-
Insect Fragment	-	-	-
Pollen	-	-	-
Total Fungi	90	1160	No Trace

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

Findings and Conclusions

The comfort parameters (i.e., temperature, RH, CO_2 , and CO levels) in the representative areas conform to ASHRAE and/or NAAQS guidelines with the exception of the temperature. On November 20, 2020, total mold counts in representative area samples (spore count/ m^3 of air) in all the areas inspected were lower than the outdoor concentrations, with the exception of the Multipurpose Room indicating no amplified mold growth.

On February 15, 2021, total mold counts in air samples (spore count/m3 of air) in the Multipurpose Room were significantly lower than the outdoor concentrations, 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

⁺⁺Includes other spores with similar morphology.

Attachment

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



Attention: Indika Jayatilake

SaLUT

Suite 231

EMSL Order: 192011586 Customer ID: SALU50

Customer PO: Project ID:

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

Collected Date: 11/20/2020

Received Date: 11/20/2020 02:01 PM

Analyzed Date: 11/25/2020

Project: Longfields ES / PGCPS IAQ

Washington, DC 20002

1818 New York Avenue, NE

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):	192011586-0001 01 75			ample ID: 01 02 slume (L): 75 75			192011586-0003 03 75			
Sample Location:		Cafeteria		H/V	V next to C/R 1	4	H/W ne	xt to Reading F	Room	
Spore Types	Raw Count	Count/M³	% of Total	Raw Count	Count/M³	% of Total	Raw Count	Count/M³	% of Total	
Alternaria (Ulocladium)	-	-	-	- '	-	-	-	-	-	
Ascospores	-	-	-	1*	10*	3.3	1	40	12.1	
Aspergillus/Penicillium	76	3200	97	-	-	-	1	40	12.1	
Basidiospores	3	100	3	2	80	26.7	4	200	60.6	
Bipolaris++	-	-	-	-	-	-	-	-	-	
Chaetomium	-	-	-	-	-	-	-	-	-	
Cladosporium	-	-	-	4	200	66.7	1	40	12.1	
Curvularia	-	-	-	-	-	-	-	-	-	
Epicoccum	-	-	-	-	-	-	1*	10*	3	
Fusarium	-	-	-	-	-	-	-	-	-	
Ganoderma	-	-	-	-	-	-	-	-	-	
Myxomycetes++	-	-	-	1*	10*	3.3	-	-	-	
Pithomyces++	-	-	-	-	-	-	-	-	-	
Rust	-	-	-	-	-	-	-	-	-	
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-	
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-	
Unidentifiable Spores	-	-	-	-	-	-	-	-	-	
Zygomycetes	-	-	-	-	-	-	-	-	-	
Spegazzinia	-	-	-	-	-	-	-	-	-	
Total Fungi	79	3300	100	8	300	100	8	330	100	
Hyphal Fragment	1*	10*	-	-	-	-	-	-	-	
Insect Fragment	-	-	-	-	-	-	-	-	-	
Pollen	-	-	-	-	-	-	-	-	-	
Fern/Moss	1	40	-	-	-	-	-	-	-	
Analyt. Sensitivity 600x	-	42	-	-	42	-	-	42	-	
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.



Abubakar Barry, Microbiology Laboratory Manager or other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Plymouth Meeting, PA AIHA-LAP, LLC EMLAP #178659

Initial report from: 11/25/2020 09:19 AM



Attention: Indika Jayatilake

SaLUT

Suite 231

1818 New York Avenue, NE

Washington, DC 20002

Project: Longfields ES / PGCPS IAQ

EMSL Order: 192011586 Customer ID: SALU50

Customer PO: Project ID:

Phone: (301) 595-3783

Fax: (301) 595-3787 Collected Date: 11/20/2020

Received Date: 11/20/2020 02:01 PM

Analyzed Date: 11/25/2020

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):	192011586-0004 04 75			© ID: 04 05 (L): 75 75			192011586-0006 06 75		
Sample Location:	H/	W next to C/R 9		H/W	next to Stage d	oor	Outside	Exterior EV Sa	ımple
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	-	-	-	-	-	-	1	40	4
Basidiospores	-	-	-	2	80	100	5	200	20
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	16	680	68
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	1	40	4
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Spegazzinia	-	-	-	-	-	-	1	40	4
Total Fungi	-	None Detect	-	2	80	100	24	1000	100
Hyphal Fragment	-	-	-	-	-	-	1*	10*	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Fern/Moss	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	42	-	-	42	-	-	42	-
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.



Abubakar Barry, Microbiology Laboratory Manager or other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Plymouth Meeting, PA AIHA-LAP, LLC EMLAP #178659

Initial report from: 11/25/2020 09:19 AM



EMSL Order: 192011586 Customer ID: SALU50

Customer PO: Project ID:

Phone: (301) 595-3783 Attention: Indika Jayatilake Fax: (301) 595-3787 **SaLUT**

1818 New York Avenue, NE Collected Date: 11/20/2020

Suite 231 Received Date: 11/20/2020 02:01 PM

Washington, DC 20002 **Analyzed Date: 11/25/2020** Project: Longfields ES / PGCPS IAQ

			ores & Partic	ulates by Optica	Il Microscopy (N	lethods MICR	O-SOP-201, AST	M D7391)	
Lab Sample Number: Client Sample ID: Volume (L):	1	92011586-0007 07							
Sample Location:		Field Blank		! 					
Spore Types	Raw Count	Count/M³	% of Total	-	-	-	-	-	-
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-			-		-
Aspergillus/Penicillium	-	-	-	-			-		-
Basidiospores	-	-	-	-			-		-
Bipolaris++	-	-	-	-			-		-
Chaetomium	-	-	-	-			-		-
Cladosporium	-	-	-	-			-		
Curvularia	-	-	-	-			-		-
Epicoccum	-	-	-	-			-		-
Fusarium	-	-	-	-			-		-
Ganoderma	-	-	-	-			-		-
Myxomycetes++	-	-	-	-			-		-
Pithomyces++	-	-	-	-			-		-
Rust	-	-	-	-			-		-
Scopulariopsis/Microascus	-	-	-	-			-		-
Stachybotrys/Memnoniella	-	-	-	-			-		-
Unidentifiable Spores	-	-	-	-			-		-
Zygomycetes	-	-	-	-			-		-
Spegazzinia	-	-	-	-			-		-
Total Fungi	-	No Trace	-	-			-		-
Hyphal Fragment	-	-	-	-			-		-
Insect Fragment	-	-	-	-			-		-
Pollen	-	-	-	-			-		-
Fern/Moss	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	0	-	-			-		-
Analyt. Sensitivity 300x	-	0*	-	-			-		-
Skin Fragments (1-4)	-	-	-	-			-		
Fibrous Particulate (1-4)	-	-	-	-			-		-
Background (1-5)	-	-	-	-			-		-

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



Abubakar Barry, Microbiology Laboratory Manager or other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Plymouth Meeting, PA AIHA-LAP, LLC EMLAP #178659

Initial report from: 11/25/2020 09:19 AM



EMSL Analytical, Inc.

5221 Militia Hill Road Plymouth Meeting, PA 19462

Tel/Fax: (610) 828-3102 / (610) 828-3122

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

Attention: Indika Jayatilake

SaLUT

1818 New York Avenue, NE

Suite 231

Washington, DC 20002

Project: Longfields ES / PGCPS IAQ

EMSL Order: 182100569 Customer ID: SALU50

Customer PO: Project ID:

Phone: (301) 595-3783

Fax: (301) 595-3787

Collected Date: 02/15/2021

Received Date: 02/15/2021 05:03 PM

Analyzed Date: 02/19/2021

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):	182100569-0001 1L 75				82100569-0002 02 75		182100569-0003 03			
Sample Location:	Mul	Itipurpose Roo		Outside	Exterior EV Sa	ımple		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	-	-	-	3	100	8.6	-	-	-	
Aspergillus/Penicillium	2	80	88.9	1	40	3.4	-	-	-	
Basidiospores	1*	10*	11.1	23	970	83.6	-	-	-	
Bipolaris++	-	-	-	-	-	-	-	-	-	
Chaetomium	-	-	-	-	-	-	-	-	-	
Cladosporium	-	-	-	1*	10*	0.9	-	-	-	
Curvularia	-	-	-	-	-	-	-	-	-	
Epicoccum	-	-	-	-	-	-	-	-	-	
Fusarium	-	-	-	-	-	-	-	-	-	
Ganoderma	-	-	-	-	-	-	-	-	-	
Myxomycetes++	-	-	-	1	40	3.4	-	-	-	
Pithomyces++	-	-	-	-	-	-	-	-	-	
Rust	-	-	-	-	-	-	-	-	-	
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-	
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-	
Unidentifiable Spores	-	-	-	-	-	-	-	-	-	
Zygomycetes	-	-	-	-	-	-	-	-	-	
Total Fungi	3	90	100	29	1160	100	-	No Trace	-	
Hyphal Fragment	-	-	-	-	-	-	-	-	-	
Insect Fragment	-	-	-	-	-	-	-	-	-	
Pollen	-	-	-	-	-	-	-	-	-	
Analyt. Sensitivity 600x	-	42	-	-	42	-	-	0	-	
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	0*	-	
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.

Kevin Ream, 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 particulates 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. Plymouth Meeting, PA AlHA-LAP, LLC-EMLAP Accredited #178659

Initial report from: 02/19/2021 11:26 AM



Microbiology Chain of Custody

EMSL	Order	Number	(Lab	Use	Only)

	``		
119201	1,580	-	PHONE
			FAX:

Company Name: SaLUT Inc.					EMSL-Bill to: Same Different If Bill to is Different note instructions in Comments**					
Street: 1818 New	York Ave NE	 Súite 231			Third Party Billing requires written authorization from third party					
City: Washington		State/Province:	DC		 -	Zip/Postal Code: 20002 Country: USA				
Report To (Name)	: Indika Java	atilake				Telephone #: 301-595-3783				
Email Address:		Fax#:								
Project Number/Loc	ation:Longfiel	lds ES / PGCPS IA	\Q		Please Provi	de Results	: 🗌 Fax	■ Email		
Location Address:				747	C	onnecticut S	Samples: 🗌	Commercial 🔲	Residential	
*Analysis completed								ject to methodolo	gy requirements	
		sulfate Preserve								
Public	water Supply	y Samples: No					to DOH if	required by sta	ite.	
☐ 3 Hour	☐ 6 Hour			11me (1A1)	Options * - Pleas		6 Hour	1 Week	☐ 2 Week	
LJ 0 Hour	orious	271100			y Test Codes	1	o rioui	is I week	Z week	
M001 Air-O-Cell	M174	MoldSnap			omonas aeruginosa	(MFT*)	M115 Sew	age Screen - Wat	er (P/A***)	
M030 Micro 5		Allergenco-D		M015 Hetero	trophic Plate Count		M116 Sew	age Screen - Wat	er (MPN**)	
M041 Fungal Direct E			a	M017 Total (P/A***)	Coliform & E. coli (C	olilert		age Screen - Swa age Screen - Swa		
M169 Pollen ID & Enu				M018 Total C	oliform & E. coli (M	IFT*)	M133 Meth	icillin-resistant St		
M280 Dust Character				M114 Total (Colilert MPN	coliform & E. coli Er	numeration	(MRSA)	d graving non TD	Musebasterie	
M281 Dust Character M005 Viable Fungi- A		onue ID-8 Count			oliform (MFT*)		Detection 8	d-growing non-TB & Enumeration	Wycobacteria	
M006 Viable Fungi- A			• '	M020 Fecal	Streptococcus (MF)	Γ*)	M014 Endo	otoxin Analysis		
Aspergillus, Cladospo	rium, Stachybo	trys Species ID & Co	ount)	M029 Entero	cocci (MFT) cocci (Enterolert P/	A***)	Dust Mite)	p Allergen (Cat, D	log, Cockroach,	
M007 Culturable fung M008 Culturable fung	ı - Suпасе San i - Surface San	iples (Genus ID & Ci iples (Includes	ount)	M180 Real T	M180 Real Time qPCR-ERMI 36 Other See Analytical Price Guid					
Penicillium, Aspergillu	ıs, Cladosporiul	m, Stachybotrys Spe	cies	Panel Legionella Analysis Please use M025 Sewage ScreenWater (MFT*) Legionella COC					use EMSL	
	o Gram Stoin 9	ID & Count)								
M009 Bacteria Culture Gram Stain & Count M010 Bacteria Count & ID - 3 Most Prominent							\			
M010 Bacteria Count	& ID - 3 Most F	Prominent	,		rane Filtration Tec			7		
M010 Bacteria Count M011 Bacteria Count	& ID - 3 Most F & ID - 5 Most F	Prominent Prominent		**MPN= Mos	orane Filtration Tec t Probable Number ence/Absence			J.		
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M010 Bacteria Count M011 Bacteria Count M012 Pseudomonas	& ID - 3 Most F & ID - 5 Most F aeruginosa (P//	Prominent Prominent A***)	,	**MPN= Mos	t Probable Number			1	Temperature	
M010 Bacteria Count M011 Bacteria Count M012 Pseudomonas	& ID - 3 Most F & ID - 5 Most F aeruginosa (P// Jude Fon	Prominent Prominent A***)	n	**MPN= Mos ***P/A= Pres Sample	Signature of S Potable NonPotable	Sampler:	Volume/	Date/Time	('C)	
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M010 Bacteria Count M011 Bacteria Count M012 Pseudomonas Name of Sampler: Sample # 01 02 03 04 05 06	& ID - 3 Most F & ID - 5 Most F aeruginosa (P// Jude Fon Sample L H/W H/W nex H/W n Outside	Prominent Prominent A***) seeka Location/Description Cafeteria / next to C/R 14 at to Reading Room V next to C/R 9 next to Stage door	m le	**MPN= Mos ***P/A= Pres Sample Type Air Air Air Air Air Air Air Air Air Ai	t Probable Number ence/Absence Signature of S Potable/ NonPotable (only for waters)	Test Code M001 M001 M001 M001 M001 M001	75L 75L 75L 75L 75L 75L 75L	11/20/2020 11/20/2020 11/20/2020 11/20/2020 11/20/2020 11/20/2020	('C) (Lab Use Only)	
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OrderID: 192011586



Microbiology Chain of Custody

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PHONE: FAX:

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

Sample #	Sample Location/Description	Sample Type	Potable/ NonPotable	Test Code	' Volume/ Area	Date/Time Collected	Temperature ('C) (Lab Use Only)
07	Field Blank	Аіг		N/A	N/A	11/20/2020	
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Page _______ of _____

OrderID: 182100569



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

182100569

PHONE:

FAX:

Community Names Oct 117 (EMSL-Bill to: Same Different					
Company Name: SaLUT Inc.					If B高 to is Different note instructions in Comments**					
Street: 1818 New York Ave NE Suite 231 City: Washington State/Province: DC					Third Party Billing requires written authorization from third party					
City: Washington		Zip/Postal Code: 20002 Country: USA								
Report To (Name)	Indika Jayatila	ake			Telephone #: 301-595-3783					
Email Address:	Fax #:		··	Purchase Ord	der:					
Project Number/Loc		Please Provid	de Results	: 🔲 Fax	■ Email					
Location Address:	3300 Newkirk Av	e, Forestville, M	D 20	747	C	onnecticut S	Samples: 🔲	Commercial 🔲	Residential	
*Analysis completed								ject to methodolo	gy requirements	
	Sodium Thiosu									
Public	Water Supply S						to DOH if	required by sta	ite.	
[] 0 Hours	Client				ptions * - Pleas		· Harr	☐ 1 Week	☐ 2 Week	
3 Hour	☐ 6 Hour	24 Hou		48 Hour	72 Hour	<u> </u>	6 Hour	☐ 1 Week	□ 2 week	
MODA Air O Coll	18474140	ldCan	N	licrobiology	nonas aeruginosa	(MFT*)	M115 Sew	age Screen - Wat	er (P/A***)	
M001 Air-O-Cell M030 Micro 5	M174 Mo	ergenco-D		M015 Heterotra	ophic Plate Count		M116 Sew	age Screen - Wat	er (MPN**)	
M041 Fungal Direct E		sigerico-D		M017 Total Co P/A***)	liform & E. coli (C	olilert		age Screen - Swa age Screen - Swa		
M169 Pollen ID & En				M018 Total Co	liform & E. coli (M		M133 Meth	icillin-resistant St	aph, aureus	
M280 Dust Character					liform & E. coli Èr	umeration	(MRSA)			
M281 Dust Character				(Colilert MPN*) M019 Fecal Co				d-growing non-TB & Enumeration	Mycobacteria	
M005 Viable Fungi- A M006 Viable Fungi- A					reptococcus (MF1	r*)		otoxin Analysis		
Aspergillus, Cladospo			ount)	M029 Enteroco	occi (MFT*)	•	M044 Group Allergen (Cat, Dog, Cockroad			
M007 Culturable fung	i - Surface Sample	es (Genus ID & Co			occi (Enterolert P/ ne aPCR-ERM) 36		Dust Mite) Other See Analytical Price Guide Legionella Analysis Please use EMSL Legionella COC			
M008 Culturable fung Penicillium, Aspergillo			riae	Panel	•					
ID & Count)			CICS	M025 Sewage	ScreenWater (I	//FT*)				
M009 Bacteria Cultur				*MET= Membr	ane Filtration Tec	hnique				
M010 Bacteria Count M011 Bacteria Count				**MPN= Most I	Probable Number	ii iiqao				
M012 Pseudomonas				***P/A= Preser	nce/Absence		XZ			
Name of Sampler:	Jude Fonse	ka			Signature of S	Sampler:				
	<u> </u>	<u> </u>			Potable/	-0	V-1	Data Wine	Temperature	
Sample #	Sample Loc	ation/Descriptio	n	Sample Type	NonPotable Test (only for Code			Date/Time Collected	('C) (Lab Use	
				.,,,,,	waters)				Only)	
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1 L	Multip	urpose room		Air		M001	75L	2/15/2020		
02	Outside Ex	terior EV Samp	le	Air		M001	75L	2/15/2020		
03	<u> </u>	eld Blank		Air		N/A	N/A	2/15/2020		
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				Air		M001		<u> </u>	~	
Client Sample # (s): - Total # 6					amples: 07 Samples Received Chilled? Yes / No					
Relinquished (Clie	ent):			Dat	e:		Time:			
Received (Lab):	L. Gamer	th Grop	L) Dat	e:		Time:			
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