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Washington, DC 20002

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March 17, 2016

Department of General Services
Office of Safety and Health, Facilities Division
2000 14th Street NW, 5th Floor
Washington, DC 20009

Attention: Mr. Ricardo Eley, Mr. Brian Killian

RE: Weekly Indoor Air Quality Evaluation at Shepherd Elementary School

Global Project Number: V0225

Dear Mr. Eley and Mr. Killian:

On March 16, 2016, Global Consulting, Inc. (GLOBAL) conducted a weekly indoor air quality (IAQ) evaluation at the Shepherd Elementary school, a property maintained by the Department of General Services (DGS), located at 7800 14th St. NW Washington DC 20012. This report provides a summary of observations and findings.

Methodology

The IAQ evaluation included a visual assessment, IAQ instrumentation screening, as well as sampling for non-viable mold in representative locations within the building. Additionally, one ambient set of samples was taken for comparison.

Non-viable fungal spore samples were collected on *Air-O-Cell* cassettes using a Buck BioAire calibrated pump. The air sample was taken within the breathing zone and no closer than three feet from the ground. In tandem with collecting mold samples, real-time readings for temperature, relative humidity, carbon dioxide, and carbon monoxide were collected using a Fluke 975 Air Meter.

Respirable particulate in air (PM_{2.5} μ and PM₁₀ μ size classes) was measured using an Aerocet 531 Particle Mass Counter and calibrated prior to sampling.

Microbial samples were delivered to EMSL Analytical, Inc. of Beltsville, Maryland, for analysis. The sample chain-of-custodies and laboratory reports are attached.



Observations

The table below summarizes the main observations at each space visited on March 16, 2016.

Location	Summary of Observations
Cafeteria; Ground Floor; ca. 1000 ft ²	Two occupants at the time of inspection; Tile floors and drop ceiling; No visible water leaks in the room; No visual signs of microbial growth, no odor; No visible dust on floor/ other surfaces; Water stained ceiling tile.
Corridor outside Cafeteria; Ground Floor; ca. 500 ft ²	No occupants at the time of inspection; Drop ceiling and tile floor; No visual signs of microbial growth, No odor; Trace visible dust on floor/ other surfaces.
Music room; Ground Floor; Ca. 300 ft ²	No occupants at the time of inspection; Dropped ceiling and carpeted floor; No visual signs of microbial growth, No microbial odor; No visible dust on floor/ other surfaces.
Library; Ground Floor; ca. 750 ft ²	No occupants at the time of inspection; Dropped ceiling and carpeted floor; No visual signs of microbial growth, No odor; No visible dust on floor/ other surfaces.
AG04 Classroom; Ground Floor; ca. 450 ft ²	One occupant at the time of inspection; Dropped ceiling and tiled floor; No visible water leaks in the room; No visual signs of microbial growth, No odor; Trace dust near the air diffusers on the ceiling; No visible dust on floor/other surfaces.
Stairwell 3; Ground Floor; ca. 400 ft ²	No occupants at the time of inspection; Dropped ceiling and tiled floor; No visible water leaks in the room; No visual signs of microbial growth, No odor; Visible dust on floors and other surfaces.
Auditorium; First Floor; ca. 1000 ft ²	Five occupants at the time of inspection, in and out of room; Dropped ceiling and tiled floor; No visible water leaks in the room. No visual signs of microbial growth, No odor; Visible dust near the air diffusers on the ceiling.



Measurements of Indoor Environmental Quality Parameters

A summary of average measurements of comfort parameters and respirable particulates is provided in Table 1.

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. All the temperature readings fell within the ASHRAE recommended ranges.

Relative Humidity (RH)

Relative humidity (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 relative humidity of 65% to preclude the likelihood of condensation on cool surfaces encouraging mold growth. All RH measurements fell within the ASHRAE recommended range.

Carbon Monoxide

Carbon monoxide (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 the major sources of CO. All registered CO concentrations were below the EPA National Ambient Air Quality Standard (NAAQS) of 9 ppm.

Carbon Dioxide

Under conditions of maximum occupancy, ASHRAE Standard 62.1-2010, Appendix C, infers that the acceptable carbon dioxide upper limit is the prevailing outdoor carbon dioxide concentration plus 700 parts per million (ppm). On the day of the space evaluation, the outdoor (ambient) carbon dioxide concentration was approximately 532 ppm so indoor concentrations should not exceed approximately 1232 ppm (700 + 532). All indoor carbon dioxide measurements were within the ASHRAE standards.

Respirable Particulates

Respirable particulate concentrations under PM_{2.5} & PM₁₀ size classes were below their respective National Ambient Air Quality Standard (NAAQS) levels. The highest average PM_{2.5} concentration during the monitoring period was 0.002mg/m³ (2 µg/m³). This is compared to the NAAQS primary standard for PM_{2.5} of 12 µg/m³ annual mean. The highest average PM₁₀ concentration during the same period was 0.012 mg/m³ (12 µg/m³), in Stairwell 3. This is compared to NAAQS standard for PM₁₀ of 150µg/m³ 24 hr. average. <http://www.epa.gov/air/criteria.html>

**Table 1: Shepherd Elementary School, Measurements of Indoor Environmental Quality Parameters;
 March 16, 2016. (08:30 AM- 09:30 AM)**

Sample Location	Temp °F	RH%	CO ppm	CO2 ppm	PM 2.5 mg/m ³	PM 10 mg/m ³
Standards	ASHRAE 68 to 75°F	ASHRAE <65%	NAAQS 9	ASHRAE 1230	NAAQS 0.012	NAAQS 0.150
Ambient	62.7	62.1	0	532	0.002	0.005
Cafeteria	70.7	46.7	0	627	0.000	0.003
Music room	68.9	46.8	0	667	0.001	0.010
Corridor outside cafeteria	68.9	49.9	0	612	0.001	0.005
Library	71.6	44.7	0	642	0.001	0.005
Classroom AG04	71.6	45.0	0	642	0.002	0.007
Stairwell 3	69.8	48.8	0	684	0.001	0.012
Auditorium	69.8	48.5	0	82	0.000	0.009



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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 ambient levels.

Table 2 summarizes airborne mold spore (non-viable) sampling results and locations. On the day of sampling, the mold population profiles and concentrations (spore count/m³ of air) in all the areas were lower than the outdoor concentrations. Laboratory analysis follows this report (see attachment).

**Table 2: Shepherd Elementary School, Measurements of Mold-in-Air samples;
 March 16, 2016. (08:30 AM- 09:30 AM)**

Sample Location	Ambient	Cafeteria	Music room	Corridor outside cafeteria	Library	Classroom AG04	Stairwell 3	Auditorium
<i>Alternaria</i>	-	-	-	-	-	-	10	-
<i>Ascospores</i>	810	80	40	90	10	40	40	90
<i>Aspergillus/Penicillium</i>	40	-	40	200	-	40	-	90
<i>Basidiospores</i>	7550	740	100	510	200	300	200	90
<i>Bipolaris++</i>	-	-	-	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-	-	-	-
<i>Cladosporium</i>	430	40	-	-	10	40	10	-
<i>Curularia</i>	-	-	-	-	-	-	-	-
<i>Epicoccum</i>	-	-	-	-	-	-	-	-
<i>Fusarium</i>	-	-	-	-	-	-	-	-
<i>Gonoderma</i>	-	-	-	-	-	-	-	-
<i>Myxomycetes++</i>	-	-	-	-	-	-	-	-
<i>Pithomyces</i>	-	-	-	-	-	-	40	40
Rust	-	-	-	10	-	-	10	-
<i>Scopulariopsis</i>	-	-	-	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-	-	-	-
<i>Torula</i>	-	-	-	-	-	-	-	-
<i>Ulocladium</i>	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	10	10	-
<i>Zygomycetes</i>	-	-	-	-	-	-	-	-
Hyphal Fragment	-	-	10	-	-	-	-	-
Insect Fragment	-	-	-	40	-	-	40	-
Pollen	1200	-	-	-	-	-	40	-
Total Molds	8830	860	180	810	220	430	320	310



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Conclusions

The comfort parameters (i.e., temperature, relative humidity, carbon dioxide, and carbon monoxide levels) and respirable particulates in the areas of concern conform to ASHRAE and/or NAAQS guidelines. The indoor mold spore concentrations do not indicate any mold growth related air quality concerns. Based on the observations and results of the IAQ inspection at Shepherd Elementary School building, we have no further recommendations at this time.

Thank you for the opportunity to provide industrial hygiene services for the Department of General Services. If you have any questions, please contact me at 202.832.1433 (office).

Sincerely,

Channa Bambaradeniya, Ph.D., CIH, CHMM, PMP
Global Consulting, Inc.



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Attachment

Mold Spore Sample Analytical Results and Chain-of-Custody

Forms



EMSL Analytical, Inc.

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

EMSL Order: 191602569
Customer ID: GLOC62
Customer PO:
Project ID:

Attn: Lauren Kesslak
Global Consulting, Inc.
1818 New York Avenue N.E.
Suite 107
Washington, DC 20002
Project: V0225 SHEPHERD ELEMENTARY

Phone: (814) 241-9105
Fax: (202) 832-1434
Collected: 03/16/2016
Received: 03/16/2016
Analyzed: 03/16/2016

Test Report: Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods EMSL 05-TP-003, ASTM D7391)

Lab Sample Number:	191602569-0001			191602569-0002			191602569-0003		
Client Sample ID:	01			02			03		
Volume (L):	75			75			75		
Sample Location	CAFETERIA			MUSIC RM			HALL OUTSIDE CAFÉ		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria	-	-	-	-	-	-	-	-	-
Ascospores	2	80	9.3	1	40	22.2	2	90	11.1
Aspergillus/Penicillium	-	-	-	1	40	22.2	4	200	24.7
Basidiospores	18	740	86	3	100	55.6	12	510	63
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	1	40	4.7	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	1*	10*	1.2
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	21	860	100	5	180	100	19	810	100
Hyphal Fragment	-	-	-	1*	10*	-	-	-	-
Insect Fragment	-	-	-	-	-	-	1	40	-
Pollen	-	-	-	1	40	-	-	-	-
Analyt. Sensitivity 600x	-	41	-	-	41	-	-	43	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	3	-	-	3	-	-	3	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	2	-	-	2	-

Bipolaris++ = Bipolaris/Drechslera/Exserohilum
Myxomycetes++ = Myxomycetes/Periconia/Smut

Stefanie Schneider, Microbiology Laboratory Manager
or other approved signatory

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

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

Initial report from: 03/16/2016 16:10:01

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



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Received: 03/16/2016
Analyzed: 03/16/2016

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods EMSL 05-TP-003, ASTM D7391)

Lab Sample Number:	191602569-0004			191602569-0005			191602569-0006		
Client Sample ID:	04			05			06		
Volume (L):	75			75			75		
Sample Location	LIBRARY			AG04			STAIR 3		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria	-	-	-	-	-	-	1*	10*	3.1
Ascospores	1*	10*	4.5	1	40	9.3	1	40	12.5
Aspergillus/Penicillium	-	-	-	1	40	9.3	-	-	-
Basidiospores	4	200	90.9	7	300	69.8	4	200	62.5
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	1*	10*	4.5	1	40	9.3	1*	10*	3.1
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces	-	-	-	-	-	-	1	40	12.5
Rust	-	-	-	-	-	-	1*	10*	3.1
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	1*	10*	2.3	1*	10*	3.1
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	6	220	100	11	430	100	10	320	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	1	40	-
Pollen	-	-	-	-	-	-	1	40	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	2	-	-	2	-	-	4	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	3	-	-	3	-

Bipolaris++ = Bipolaris/Drechslera/Exserohilum
Myxomycetes++ = Myxomycetes/Periconia/Smut

Stefanie Schneider, Microbiology Laboratory Manager
or other approved signatory

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Initial report from: 03/16/2016 16:10:01

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Phone: (814) 241-9105
Fax: (202) 832-1434
Collected: 03/16/2016
Received: 03/16/2016
Analyzed: 03/16/2016

Test Report: Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods EMSL 05-TP-003, ASTM D7391)

Lab Sample Number:	191602569-0007			191602569-0008			191602569-0009		
Client Sample ID:	07			08			09		
Volume (L):	75			75			0		
Sample Location	AUDITORIUM			OUTDOOR			Blank		
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total
Alternaria	-	-	-	-	-	-	-	-	-
Ascospores	2	90	29	19	810	9.2	-	-	-
Aspergillus/Penicillium	2	90	29	1	40	0.5	-	-	-
Basidiospores	2	90	29	177	7550	85.5	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	10	430	4.9	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces	1	40	12.9	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	7	310	100	207	8830	100	-	No Trace	-
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	28	1200	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	0	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	0*	-
Skin Fragments (1-4)	-	3	-	-	1	-	-	-	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	-	-
Background (1-5)	-	2	-	-	2	-	-	-	-

Bipolaris++ = Bipolaris/Drechslera/Exserohilum
Myxomycetes++ = Myxomycetes/Periconia/Smut

Stefanie Schneider, 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: 03/16/2016 16:10:01



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

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

191602569

EMSL ANALYTICAL, INC.
10768 BALTIMORE AVE
BELTSVILLE, MD 20705
PHONE: (301)937-5700
FAX: (301)937-5701

Company: Global Consulting EMSL-Bill to: Same Different
If Bill to is Different note instructions in Comments**

Street: 1818 New York Ave NE Third Party Billing requires written authorization from third party

City: Washington State/Province: DC Zip/Postal Code: 20002 Country: USA

Report To (Name): Lauren Kassak Telephone #: 202-832-1433

Email Address: L.Kassak@gc.usa.biz Fax #: _____ Purchase Order: _____

Project Name/Number: V0225 Shepherd Elementary Please Provide Results: Fax Email

U.S. State Samples Taken: 9 Connecticut Samples: Commercial 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 Cyclax	• M002 Cyclax-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 <i>Cryptococcus neoformans</i> Detection
• M008 Culturable Fungi (Speciation)	• M018 Total Coliform (Membrane Filtration)	• M120 <i>Histoplasma capsulatum</i> Detection
• M009 Gram Stain Culturable Bacteria	• M020 Fecal <i>Streptococcus</i> (Membrane Filtration)	• M033-39 Allergen Testing
• M010 Bacterial Count and ID - 3 Most Prominent	• M210-215 <i>Legionella</i> 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: [Signature] Signature of Sampler: Lauren Kassak

Sample #	Sample Location	Sample Type	Test Code	Volume/Area	Date/Time Collected
Example: A1	Kitchen	Air	M001	75L	1/1/12 4:00 PM
01	Cafeteria	Air	M001	75L	3-16-16
02	Music Room				
03	hall outside cat				
04	Library				
05	AGOH				
06	Stair 3				
07	Addition				
08	outdoor				
09	Blank			N/A	

Client Sample # (s): _____ Total # of Samples: 9

Relinquished (Client): [Signature] Date: 3-16-16 Time: 12:10

Received (Client): [Signature] Date: 3/16/16 Time: 12:10pm

Comments: Shepherd Elementary, DC weekly TAO