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April 2, 2021

Prince Georges County Environmental Safety Office 13306 Old Marlboro Pike Upper Marlboro, MD 20772

Attention: Mr. Alex Baylor

RE: Indoor Air Quality Screening Report

Global Project Number: 20-064 School: Bladensburg High School

Dear Mr. Baylor,

On January 26, 2021, Global Inc.'s (GLOBAL) team of Industrial Hygienists under the supervision of Certified Industrial Hygienist, Dr. Channa Bambaradeniya, conducted an Indoor Air Quality Screening at Bladensburg High School located at 4200 57th Ave, Bladensburg, MD 20710.

Methodology

The IAQ evaluation included a visual assessment, sampling for non-viable mold spores in air, and measurement of comfort parameters (temperature, humidity, carbon dioxide, and carbon monoxide) in randomly selected representative locations within the building. GLOBAL's inspector conducted a walkthrough with Prince Georges County Public School (PGCPS) personnel present. Rooms were selected in a random manner throughout the building so as to prevent sampling bias.

During the visual assessment of representative locations, and when noted, GLOBAL documented those areas with suspected mold growth, water intrusions, and wet conditions that have the potential to lead to mold growth. GLOBAL also noted any unusual odors. At least one microbial air sample was collected for every 10,000 Square Feet (SF) of space in the building and the analytical results for the interior spaces were compared to an outdoor (ambient) sample collected on the same day.

Microbial samples (including a field blank for quality control) were delivered under strict chainof-custody procedures were to Hayes Microbial Consulting - an AIHA EMPAT-certified laboratory in Midlothian, Virginia for analysis by microscopy. The sample chain-of-custody and laboratory report is attached.

Observations

The general observations in the indoor locations inspected are summarized in Table 1 below:

Location **Observations** Room CC1153 Water damage on ceiling tiles Room D1112 No issues Room CC1174C Discolored ceiling tiles Room CC1122 No issues Activity Center No issues Gymnasium No issues Cafeteria No issues Girls Locker No issues Room D2109 No issues Room D2104 No issues Room D2141 No issues Room D2105 Discolored air diffusers Room D2108 No issues Room 3132 No issues Discolored ceiling tiles Room 3121 Discolored ceiling tiles, spots on ceiling tiles Room 3112 Room 3100 Spots on ceiling tiles and air diffusers **Basic Design** No issues Room C4128 No issues Room C4112 Discolored air diffusers Room C4100 Spots on ceiling tiles, discolored air diffusers Spots on ceiling tiles, warped ceiling tiles Room C5100 Spots on ceiling tiles, warped ceiling tiles Room C5110

Table 1: Observations

Comfort Parameter Measurements and Mold-in-Air Sample Results

Room C5129

The comfort parameter measurements and status of fungal ecology is summarized in Table 2 and Table 3.

Spots on ceiling tiles



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Temperature

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) have published recommendations for year-round acceptable temperatures in Standard 55-2016 (*Thermal Environmental Conditions for Human Occupancy*). The winter comfort range is 68 to 75°F and the summer comfort range is 73 to 79°F. It is important to note that ASHRAE standards are intended as a suggested guideline as opposed to a regulation. The indoor temperature readings of most of the rooms were below the ASHRAE Standard for winter.

Relative Humidity (RH)

Relative humidity is a key factor for mold growth. Mold has the potential of growing on suitable surfaces with humidity levels above 60%. ASHRAE standard 62.1-2013 (*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 the indoor relative humidity readings were below the maximum ASHRAE recommended level of 65%.

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 62.1-2013, Appendix C, infers that the acceptable carbon dioxide upper limit is the prevailing outdoor carbon dioxide concentration plus 700 parts per million (ppm). On January 26, 2021, the outdoor (ambient) carbon dioxide concentration was approximately 416 ppm so indoor concentrations should not exceed approximately 1116 ppm (700 + 416). All indoor carbon dioxide measurements were within the ASHRAE standards.

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 fungal ecology profile should be consistent with what is encountered outdoors and the spore concentrations should be below the ambient levels. Laboratory analytical results are attached at the end of this report.

The analytical results of indoor air samples collected from room E2104 and C4100 indicate elevated presence of *Aspergillus/Penicillium* and indoor air samples collected from room D2109 indicates elevated presence of *Stachybotrys*. The horizontal surfaces of the above locations were thoroughly recleaned, and air scrubbers with HEPA filters were operated for 24-36 hours.

Subsequently, they were reinspected on April 1, 2021, and the analytical results of air samples collected from all three locations indicated normal fungal ecology. Laboratory analytical results are attached at the end of this report.

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Sample Location	Temp ⁰ F ASHRAE	RH%	CO ppm NAAQS	CO2 ppm ASHRAE	Normal Fungal Ecology?
Standards	68 to 75°F	<65%	<9	1116	Leology.
Ambient	34.0	47.8	0	416	Yes
Room CC1153	63.5	37.8	0	404	Yes
Room D1112	70.7	50.6	0	411	Yes
Room CC1174C	67.7	50.0	0	401	Yes
Room CC1122	64.7	51.2	0	408	Yes
Activity Center	62.4	41.3	0	411	Yes
Gymnasium	57.0	31.3	0	392	Yes
Cafeteria	67.2	44.2	0	445	Yes
Girls Locker	66.1	50.1	0	414	Yes
Room D2109	66.1	39.5	0	406	No
Room D2104	58.4	33.7	0	413	No
Room D2141	43.0	51.1	0	423	Yes
Room D2105	64.1	48.9	0	409	Yes
Room D2108	60.8	31.2	0	401	Yes
Room 3132	65.4	48.0	0	415	Yes
Room 3121	67.9	49.4	0	406	Yes
Room 3112	64.6	48.7	0	426	Yes
Room 3100	65.3	50.0	0	405	Yes
Basic Design	68.3	33.8	0	411	Yes

Table 2: Air Quality Results (Inspected on January 26, 2021)



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Sample Location	Temp ⁰ F	RH%	CO ppm	CO2 ppm	Normal Fungal
Standards	ASHRAE 68 to 75°F	ASHRAE <65%	NAAQS <9	ASHRAE 1116	Ecology?
Room C4128	66.7	39.4	0	409	Yes
Room C4112	65.6	48.9	0	409	Yes
Room C4100	63.4	46.9	0	402	No
Room C5100	62.5	32.1	0	409	Yes
Room C5110	64.3	31.8	0	405	Yes
Room C5129	65.9	50.7	0	405	Yes

Table 3: Air Quality Results (Inspected on April 2, 2021)

Sample Location Standards	Temp ⁰ F ASHRAE 68 to 75°F	RH% ASHRAE <65%	CO ppm NAAQS <9	CO2 ppm ASHRAE 1251	Normal Fungal Ecology?
Ambient	55.0	43.0	0	551	N/A
Room D2109	65.0	43.0	0	489	Yes
Room D2104	64.0	57.0	0	530	Yes
Room C4100	71.0	40.0	0	469	Yes

Conclusions and Recommendations

Among the comfort parameters measured, the indoor temperature readings were below the range of the ASHRAE recommended range for winter. The indoor temperature should be regulated at the ASHRAE recommended range for general comfort.

The indoor mold samples collected from room E2104 and C4100 indicated elevated presence of *Aspergillus/Penicillium* and indoor air samples collected from room D2109 indicates elevated presence of *Stachybotrys* during the screening performed on January 26, 2021. These locations were thoroughly recleaned and reinspected, and the analytical results indicated normal fungal ecology.



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Based on the observations and results of air quality parameters screened in representative locations at Bladensburg High School, GLOBAL recommends the following corrective measures:

It has been our pleasure to conduct these IAQ Screening services for the Prince Georges County Public School system. If you have any questions, please feel free to contact us.

Regards,

Channa Bambaradeniya, Ph.D., CIH, CSP, CHMM Certified Industrial Hygienist Global, Inc. Mobile: 443-691-0455



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ATTACHMENT I

Air Sample Analytical Results and Chain-Of-Custody Form



#21003024

Analysis Report prepared for

Global, Inc.

1818 New York Ave. Suite 217 Washington, DC, 20002

Phone: (443) 691-0455

BB203 Indoor Air Quality Assessment PGCPS Bladensburg High School

Collected: January 26, 2021 Received: January 27, 2021 Reported: January 27, 2021 We would like to thank you for trusting Hayes Microbial for your analytical needs! We received 25 samples by FedEx in good condition for this project on January 27th, 2021.

The results in this analysis pertain only to this job, collected on the stated date, and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC..

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial. In no event, shall Hayes Microbial or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of the use of these test results.

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Steve Hayes, BSMT(ASCP) Laboratory Director Hayes Microbial Consulting, LLC.



EPA Laboratory ID: VA01419



Lab ID: #188863



DPH License: #PH-0198

3005 East Boundary Terrace, Suite F. Midlothian, VA. 23112

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Indoor Air Quality Assessment PGCPS Bladensburg High School

#21003024

SOP - HMC#101

Sample Number	1	BHS-0	126-01	2	BHS-01	26-02	3	BHS-01	26-03	4	BHS-0	126-04	
Sample Name		Ambient		Ro	oom CC115	3	R	oom D1112	2	Ro	om CC1174	łC	
Sample Volume		75.00 liter			75.00 liter			75.00 liter		75.00 liter			
Reporting Limit		13 spores/m ³	1		13 spores/m ³			13 spores/m ³			13 spores/m ³		
Background		2		2				2			2		
Fragments		13/m ³			ND			ND			ND		
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Tota	
	Raw Count	Count / m	% OF TOTAL	Raw Count	Count / m	% 01 10tai	Raw Count	Count / m	% OF TOLAT	Raw Count	Count / m	% 01 1018	
Alternaria		07	05.0%				1	10	22.2%	1	10	F0.00	
Ascospores	2	27	25.0%	1.4	107	00.0%	1	13	33.3%	1	13	50.0%	
spergillus Penicillium		0.0	75.00/	14	187	93.3%		07	66.70				
Basidiospores	6	80	75.0%				2	27	66.7%				
Bipolaris Drechslera													
Chaetomium											10	50.00	
Cladosporium										1	13	50.09	
Curvularia													
Epicoccum													
Fusarium													
Memnoniella													
Myxomycetes													
Pithomyces													
Stachybotrys													
Stemphylium													
Torula													
Ulocladium													
Tetraploa				1	13	6.7%							
Polythrincium													
Total	8	107	100%	15	200	100%	3	40	100%	2	26	100%	
Water Damage Indicator	·	Commo	on Allergen		Slightly Higher	than Baseline	Signi	ficantly Higher	than Baseline		Ratio Abnormal	ity	
		Collected: Jan 2		Rece	eived: Jan 27, 2	021	Reported:	Jan 27, 2021					
	ES	Project Analyst: Connor Gailliot,		A		Date: 01 - 27 - 202	Reviewe 21 Steve H	ed By: layes, BSMT 🏒	tephen 1	1. Hoyes	Date: 01 - 2	7 - 2021	
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#21003024

SOP - HMC#101

Sample Number	5	BHS-0	126-05	6	BHS-0	126-06	7	BHS-0	126-07	8	BHS-0	126-08	
Sample Name	R	oom CC112	2	Ac	ctivity Cente	er	(Gymnasium			Cafeteria		
Sample Volume		75.00 liter			75.00 liter		75.00 liter			75.00 liter			
Reporting Limit		13 spores/m ³	}		13 spores/m ³	3	13 spores/m ³			13 spores/m ³			
Background		2		2				2			2		
Fragments		ND			ND			ND			ND		
		0	0		0	0, .6 7.4.1		01 / ³	0 - 6 T		0	04 - 6 T - 1	
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Tot	
Alternaria		10	00.0%					40	100.00		07	50.00	
Ascospores	1	13	33.3%				3	40	100.0%	2	27	50.09	
Aspergillus Penicillium		10	00.00		07	6.6 70:					07	50.00	
Basidiospores	1	13	33.3%	2	27	66.7%				2	27	50.0	
Bipolaris Drechslera													
Chaetomium		10	00.0%		10	00.00/							
Cladosporium	1	13	33.3%	1	13	33.3%							
Curvularia													
Epicoccum													
Fusarium													
Memnoniella													
Myxomycetes													
Pithomyces													
Stachybotrys													
Stemphylium Torula													
Ulocladium													
Tetraploa													
Polythrincium													
			1000			1000			1000			1.000	
Total	3	39	100%	3	40	100%	3	40	100%	4	54	1009	
Water Damage Indicato	r	Commo	on Allergen		Slightly Higher	than Baseline	Signi	ficantly Higher	than Baseline		Ratio Abnormal	ity	
		Collected: Jan 2	26, 2021	Rece	eived: Jan 27, 2	021	Reported:	Jan 27, 2021					
	ES	Project Analyst: Connor Gailliot,		A		Date: 01 - 27 - 202	Review 21 Steve H	ed By: łayes, BSMT 🏒	Iteshen 7	1. Hoyes	Date:	7 - 2021	
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Indoor Air Quality Assessment PGCPS Bladensburg High School

#21003024

SOP - HMC#101

Sample Number	9	BHS-0	126-09	10	BHS-0	26-10	11	BHS-0	126-11	12	BHS-0	126-12
Sample Name	Girl	s Locker Ro	om	F	Rood D2109		F	oom E2104	ŀ	F	Room C2141	
Sample Volume		75.00 liter			75.00 liter		75.00 liter			75.00 liter		
Reporting Limit		13 spores/m ³	3	13 spores/m ³				13 spores/m ³	}	13 spores/m ³		
Background		2		2				2			2	
Fragments		ND			ND			ND			13/m ³	
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Tota
Alternaria												
Ascospores	1	13	33.3%				1	13	4.3%			
Aspergillus Penicillium				10	133	55.6%	21	280	91.3%	2	27	100.0%
Basidiospores				2	27	11.1%						
Bipolaris Drechslera												
Chaetomium												
Cladosporium	2	27	66.7%	4	53	22.2%	1	13	4.3%			
Curvularia												
Epicoccum				1	13	5.6%						
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces												
Stachybotrys				1	13	5.6%						
Stemphylium												
Torula												
Ulocladium												
Tetraploa												
Polythrincium												
Total	3	40	100%	18	239	100%	23	306	100%	2	27	100%
Water Damage Indicato	r	Commo	on Allergen		Slightly Higher	than Baseline	Sign	ficantly Higher	than Baseline		Ratio Abnormal	ity
		Collected: Jan :	26, 2021	Rece	eived: Jan 27, 2	021	Reported	Jan 27, 2021				
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Steve Hayes, BSMT Stealer 71.

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Indoor Air Quality Assessment PGCPS Bladensburg High School

#21003024

SOP - HMC#101

Sample Number	13	BHS-01	26-13	14	BHS-0	26-14	15	BHS-0	126-15	16	BHS-0	126-16	
Sample Name	R	oom C2105	5	R	oom C2108	3	R	loom C3132	2	R	oom C3121		
Sample Volume		75.00 liter			75.00 liter			75.00 liter		75.00 liter			
Reporting Limit		13 spores/m ³			13 spores/m ³		13 spores/m ³			13 spores/m ³			
Background		2		2				2			2		
Fragments		ND	ND 13/m ³				ND			ND			
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Tota	
Alternaria			, or rotar										
Ascospores				1	13	100.0%	1	13	14.3%	1	13	50.0%	
Aspergillus Penicillium					10	100.0%	6	80	85.7%		10	00.07	
Basidiospores							0		00.170				
Bipolaris Drechslera													
Chaetomium													
Cladosporium	2	27	100.0%										
Curvularia													
Epicoccum													
Fusarium													
Memnoniella													
Myxomycetes										1	13	50.09	
Pithomyces													
Stachybotrys													
Stemphylium													
Torula													
Ulocladium													
Tetraploa													
Polythrincium													
Total	2	27	100%	1	13	100%	7	93	100%	2	26	100%	
Water Damage Indicato	r	Commo	on Allergen		Slightly Higher	than Baseline	Signi	ificantly Higher	than Baseline		Ratio Abnormal	ity	
		Collected: Jan 2	26, 2021	Rece	eived: Jan 27, 2	021	Reported:	: Jan 27, 2021					
	ES	Project Analyst: Connor Gailliot, I	as C	A		Date: 01 - 27 - 202	Review Steve H	ed By: Hayes, BSMT 🏒	Stephen 1	1. Hayes	Date:	7 - 2021	
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Spore Trap SOP - HMC#101

Sample Number	17	BHS-0	26-17	18	BHS-0	26-18	19	BHS-0	26-19	20	BHS-0	126-20	
Sample Name	R	oom C3112	2	R	oom C3100)	Basi	c Design Ro	om	R	oom C4128	3	
Sample Volume		75.00 liter			75.00 liter			75.00 liter		75.00 liter			
Reporting Limit		13 spores/m ³			13 spores/m ³			13 spores/m ³			13 spores/m ³		
Background		2		2				2			2		
Fragments		ND			ND			13/m ³			ND		
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Tota	
Alternaria	Raw Count	Count / m	% OF TOTAL	Raw Count			Raw Count	Count / m	% OF TOTAL	Raw Count	Count / m	% 01 1018	
					13	33.3%							
Ascospores Aspergillus Penicillium	3	40	100.0%	2	27	66.7%	14	187	93.3%	8	107	66.7%	
Basidiospores	3	40	100.0 %	Ζ	21	00.7 %	14	107	93.3%	0	107	00.17	
Bipolaris Drechslera													
Chaetomium				-									
Cladosporium				-			1	13	6.7%	4	53	33.39	
Curvularia								10	0.1 %		00	00.07	
Epicoccum													
Fusarium													
Memnoniella													
Myxomycetes													
Pithomyces													
Stachybotrys													
Stemphylium													
Torula													
Ulocladium													
Tetraploa													
Polythrincium													
Total	3	40	100%	3	40	100%	15	200	100%	12	160	100%	
Water Damage Indicato	r	Commo	on Allergen		Slightly Higher	than Baseline	Signi	ficantly Higher	than Baseline		Ratio Abnormal	lity	
		Collected: Jan 2	26, 2021	Rece	eived: Jan 27, 2	021	Reported:	Jan 27, 2021					
	ES	Project Analyst: Connor Gailliot,		A		Date: 01 - 27 - 202	Review	ed By: layes, BSMT 🏒	Iteshen 7	1. Hayes	Date:	7 - 2021	
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Indoor Air Quality Assessment PGCPS Bladensburg High School

#21003024

SOP - HMC#101

Sample Number	21	BHS-01	26-21	22	BHS-01	26-22	23	BHS-0	26-23	24	BHS-0	126-24
Sample Name	R	oom C4112	2	R	oom C4100)	R	oom C5100)	R	oom C5110)
Sample Volume		75.00 liter			75.00 liter			75.00 liter		75.00 liter		
Reporting Limit		13 spores/m ³			13 spores/m ³		13 spores/m ³			13 spores/m ³		
Background		2		2			2				2	
Fragments		ND			ND			ND			ND	
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Tota
Alternaria												
Ascospores							1	13	14.3%			
Aspergillus Penicillium				36	480	100.0%	3	40	42.9%			
Basidiospores	2	27	100.0%				1	13	14.3%			
Bipolaris Drechslera												
Chaetomium												
Cladosporium							2	27	28.6%	1	13	50.09
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes										1	13	50.09
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Tetraploa												
Polythrincium												
Total	2	27	100%	36	480	100%	7	93	100%	2	26	1009
Water Damage Indicato	r	Commo	n Allergen		Slightly Higher	than Baseline	Signi	ficantly Higher	than Baseline		Ratio Abnormal	ity
		Collected: Jan 2	26, 2021	Rece	eived: Jan 27, 2	021	Reported:	Jan 27, 2021				
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Indoor Air Quality Assessment PGCPS Bladensburg High School

#21003024

SOP - HMC#101

							1	
Sample Number	25	BHS-0				 		
Sample Name	R	oom C5129)					
Sample Volume		75.00 liter						
Reporting Limit		13 spores/m ³	1					
Background		2						
Fragments		ND						
Organism	Raw Count	Count / m ³	% of Total					
Alternaria								
Ascospores	2	27	28.6%					
Aspergillus Penicillium	2	27	28.6%					
Basidiospores	1	13	14.3%					
Bipolaris Drechslera								
Chaetomium								
Cladosporium	1	13	14.3%					
Curvularia								
Epicoccum								
Fusarium								
Memnoniella								
Myxomycetes								
Pithomyces								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Tetraploa								
Polythrincium	1	13	14.3%					
Total	7	93	100%					

Wa	ater Damage Indicator	Common Allergen	Slightly Higher than Baseline	Significantly Higher than Baseline	Ratio Abnormality
		Collected: Jan 26, 2021	Received: Jan 27, 2021	Reported: Jan 27, 2021	
	HAYES	Project Analyst:	Date:	Reviewed By: Steve Hayes, BSMT Stephen N.	Date:
Ľ	MICROBIAL CONSULTING		01 - 27 - 2021		Noges 01 - 27 - 2021
		3005 East Boundary Terrace, Suit	te F. Midlothian, VA. 23112 (804	1) 562-3435 contact@hayesmic	robial.com Page: 8 of 11

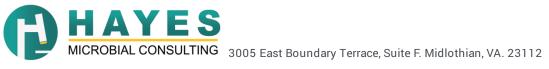
1818 New York Ave. Suite 217 Washington, DC, 20002 (443) 691-0455

BB203 Indoor Air Quality Assessment PGCPS Bladensburg High School

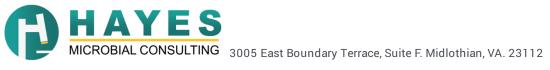
Reporting Limit	The Reporting Limit is the lowest number of spores that can be detected based on the total volume of the sample collected and the percentage of the slide that is counted. At Hayes Microbial, 100% of the slide is read so the LOD is based solely on the total volume. Raw spore counts that exceed 500 spores will be estimated.
Blanks	Results have not been corrected for field or laboratory blanks.
Background	The Background is the amount of debris that is present in the sample. This debris consists of skin cells, dirt, dust, pollen, drywall dust and other organic and non-organic matter. As the background density increases, the likelihood of spores, especially small spores such as those of Aspergillus and Penicillium may be obscured. The background is rated on a scale of 1 to 5 and each level is determined as follows:
	 NBD: No background detected due to possible pump or cassette malfunction. Recollect sample. (Field Blanks will display NBD) 1: <5% of field occluded. No spores will be uncountable. 2: 5-25% of field occluded. 3: 25-75% of field occluded. 4: 75-90% of field occluded. 5: >90% of field occluded. Suggested recollection of sample.
Fragments	Fragments are small pieces of fungal mycelium or spores. They are not identifiable as to type and when present in very large numbers, may indicate the presence of mold amplification.
Control Comparisons	There are no national standards for the numbers of fungal spores that may be present in the indoor environment. As a general rule and guideline that is widely accepted in the indoor air quality field, the numbers and types of spores that are present in the indoor environment should not exceed those that are present outdoors at any given time. There will always be some mold spores present in "normal" indoor environments. The purpose of sampling and counting spores is to help determine whether an abnormal condition exists within the indoor environment and if it does, to help pinpoint the area of contamination. Spore counts should not be used as the sole determining factor of mold contamination. There are many factors that can cause anomalies in the comparisor of indoor and outdoor samples due to the dynamic nature of both of those environments.
Water Damage Indicator	Blue: These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem.
Common Allergen	Green: Although all molds are potential allergens, these are the most common allergens that may be found indoors.
Slightly Higher than Baseline	Orange: The spore count is slightly higher than the outside count and may or may not indicate a source of contamination. Red: The spore count is significantly higher than the baseline count and probably indicates a source of contamination.
Significantly Higher than Baseline	
Ratio Abnormality	Violet: The types of spores found indoors should be similar to the ones that were identified in the baseline sample. Significant increases (more than 25%) in the ratio of a particular spore type may indicate the presence of abnormal levels of mold, even if the total number of spores of that type is lower in the indoor environment than it was outdoors.
Color Coding	Fungi that are present in indoor samples at levels lower than 200 per cubic meter are not color coded on the report, unless they are one of the water damage indicators.



Shanka Dissanayake Global, Inc.		BB203 Indoor Air Quality Assessment	#21003024
1818 New York Ave. Suite 217 Washington, DC, 20002 (443) 691-0455		PGCPS Bladensburg High School	Organism Descriptions
Alternaria	Habitat:	Commonly found outdoors in soil and decaying plants. Indoors, it is commonly found on window sills and	other horizontal surfaces.
	Effects:	A common allergen and has been associated with hypersensitivity pneumonitis. Alternaria is capable of promay be associated with disease in humans or animals. Occasionally an agent of onychomycosis, ulcerated sinusitis, principally in the immunocompromised patient.	
Ascospores	Habitat:	A large group consisting of more than 3000 species of fungi. Common plant pathogens and outdoor numb rain. Most of the genera are indistinguishable by spore trap analysis and are combined on the report.	bers become very high following
	Effects:	Health affects are poorly studied, but many are likely to be allergenic.	
Aspergillus Penicillium	Habitat:	The most common fungi isolated from the environment. Very common in soil and on decaying plant materi a wide variety of substrates.	ial. Are able to grow well indoors on
	Effects:	This group contains common allergens and many can cause hypersensitivity pneumonitis. They may cause opportunistic pathogens. Many species produce mycotoxins which may be associated with disease in hum production is dependent on the species, the food source, competition with other organisms, and other envi	nans and other animals. Toxin
Basidiospores	Habitat:	A common group of Fungi that includes the mushrooms and bracket fungi. They are saprophytes and plan can cause structural damage to buildings.	t pathogens. In wet conditions they
	Effects:	Common allergens and are also associated with hypersensitivity pneumonitis.	
Cladosporium	Habitat:	One of the most common genera worldwide. Found in soil and plant debris and on the leaf surfaces of livin lower in the winter and often relatively high in the summer, especially in high humidity. The outdoor numbe and evening. Indoors, it can be found growing on textiles, wood, sheetrock, moist window sills and in HVAC	ers often spike in the late afternoon
	Effects:	A common allergen, producing more than 10 allergenic antigens and a common cause of hypersensitivity p	,
Epicoccum	Habitat:	It is found in soil and plant litter and is a plant pathogen. It can grow indoors on a variety of substrates, inc commonly found on wet drywall.	luding paper and textiles and is
	Effects:	It is a common allergen. No cases of infection have been reported in humans.	



Shanka Dissanayake Global, Inc.		BB203 #21003024 Indoor Air Quality Assessment
1818 New York Ave. Suite 217 Washington, DC, 20002 (443) 691-0455		PGCPS Bladensburg High School Organism Description
Myxomycetes	Habitat:	Found on decaying plant material and as a plant pathogen.
	Effects:	Some allergenic properties reported, but generally pose no health concerns to humans.
Polythrincium	Habitat:	Found in soil and occasionally on plants.
	Effects:	No known health effects. Allergenic properties are poorly studied.
Stachybotrys	Habitat:	Commonly found in soil and on decaying plant material. It is cellulolytic, and can be found indoors on wet materials containing cellulose, such as wallboard, ceiling tile, and other paper-based materials. It is found outdoors on decaying plant material although it is rarely detected on
	Effects:	outdoor air samples. Allergenic properties are poorly studied and no cases of infection have been reported in humans. They do however produce potent tricothecene mycotoxins. The toxins produced by this fungus can suppress the immune system affecting the lymphoid tissue and the bone marrow. The mycotoxin is also reported to be a liver and kidney carcinogen.
Tetraploa	Habitat:	Found in soil and decaying plant material. Rarely found growing indoors.
	Effects:	Allergenic properties are not well studied.





Company: Global Inc

Address: 1818 New York Ave NE Suite 217

Washington DC 20002

SHIP: FEDEX - BOX 50 DATE: 01-27-2021

8160 4410 5586



Job 1	Number: BB2	03		Job Name:	ndoor Air Quality Ass	essmen	t- 1	į.							
Collector: Shanka Dissanayake Date Collected: 01/26/2021				1	GCPS Bladensburg			Мо	bile: 443-691-	0455	Email	Channa	b@globalincusa.net		
Date	Collected: 01	/26/2021							Note:						
	Analysis Ty	pe		Analysis Description					Turnaround	Accepted Media Types					
Spore	e Trap	S	Identification	on & Enumeratio	on of Fungal Spores	1		24	4 Hour	Air Cassettes, Impact Slides					
		S+	Spore Trap	Analysis with D	ander, Fiber, and Pollen counts	S		24	4 Hour	Air Casse	ettes, Impa	act Slides			
Direct	t ID	D	ID & Semi-0	Quantative Enum	neration of spores and mycelic	ım		24	4 Hour	Bio-Tape	, Tape, Swa	ab, Bulk, A	gar Plate		
		D+	Direct Anal	ysis with Fully C	uantitative spore count			24	4 Hour	Bio-Tape	Tape, Swa	ab, Bulk, A	gar Plate		
Culture C1 Identifie				on & Enumeratio	on of Mold only			7	Day	Air Plate,	Agar Plate	e, Swab, E	Bulk		
		C2	Identification	on & Enumeratio	on of Bacteria only			4	Day	Air Plate,	Agar Plate	e, Swab, E	sulk		
	2	C3	Identificatio	on & Enumeratio	on of Mold and Bacteria	1		71	Day	Air Plate,	Agar Plate	e, Swab, E	ulk		
		C5	Coliform So	creen for Sewag	e Bacteria			2 Day Agar Plate, Swa				vab, Bulk			
Partic	cle	TPA	Total Partic	culate Analysis, I	D & Count (Does Not Include	Mold)		24	4 Hour	Air Casse	ettes, Impa	ct Slides,	ct Slides, Bio-Tape		
#	Nun	nber		Sample				is	Volume			No	otes		
1	BHS-0	126-01	-		Ambient	1	S		75L	144					
2	BHS-0	126-02		Room CC1153			S		75L				7		
3	BHS-0	126-03		Room D1112			S		75L						
4	BHS-0	126-04		Ro	oom CC1174C		S		75L			~	С. 19		
5	BHS-0	126-05		R	oom CC1122		S		75L				÷		
6	BHS-0	126-06		A	ctivity Center		S		75L						
7	BHS-0	126-07	-		Gynasium		S		75L						
8	BHS-0	126-08			Cafeteria		S		75L						
9	BHS-0	126-09		Girl	s Locker Room		S		75L						
10	BHS-0	126-10		F	Rood D2109		S		75L						
11	BHS-0	126-11		F	Room E2104		S		75L						
12	BHS-0	126-12		F	Room C2141		S		75L						
13 BHS-0126-13 14 BHS-0126-14			F	Room C2105		S		75L							
			Room C2108			S		75L							
15	BHS-0	126-15		F	Room C3132		S		75L						
16	BHS-0	126-16		F	Room C3121		S		75L						

Hayes Microbial Consulting, LLC.

3005 East Boundary Terrace, Suite F. Midlothian, VA. 23112

(804) 562-3435 contact@hayesmicrobial.com

Form #20, Rev.3, March 23, 2019 Chain of Custody



Company: Global Inc

1818 New York Ave NE Suite 217 Address:

Washington DC 20002



8160 4410 5586



		IAL CONSU		Washington DC 20002					4410		21003024		
	Number: BB2			Job Name: Indoor Air Quality As	sessment		Moh	ile: 443-691-	1455	Email: Cha	nnab@globalincusa.net		
	ctor: Shanka		ke	PGCPS Bladensburg	g High Sch	nool	Note		J455		mab@globalincusa.net		
Date	Collected: 0*	1/26/2021								Accepted Media Types			
	Analysis Ty	-		Analysis Description				urnaround	AirOa				
Spore	e Trap	S		on & Enumeration of Fungal Spores	1			Hour		ssettes, Impact Sli	and the second		
		S+		Analysis with Dander, Fiber, and Pollen cou				Hour		ssettes, Impact Sli			
Direct	t ID	D		Quantative Enumeration of spores and myce	elium			Hour		pe, Tape, Swab, Bu			
		D+		lysis with Fully Quantitative spore count				Hour		pe, Tape, Swab, Bu	and the second		
Cultu	re	C1	Identificati	on & Enumeration of Mold only			7 D			te, Agar Plate, Swa			
		C2	Identificati	on & Enumeration of Bacteria only			4 D	ау		te, Agar Plate, Swa			
		C3	Identificati	on & Enumeration of Mold and Bacteria							late, Swab, Bulk		
		C5	Coliform S	creen for Sewage Bacteria	ar Plate, Swab, Bulk								
Partic	cle	TPA	Total Parti	culate Analysis, ID & Count (Does Not Includ		24	Hour	Air Ca	ssettes, Impact Sli	des, Bio-Tape			
#	Nu	mber		Sample		Analysi	s	Volume			Notes		
1	BHS-0	0126-17	3	Room C3112		S		75L					
2	BHS-0	0126-18		Room C3100		S		75L					
3	BHS-0	0126-19		BASIC DESIGN ROOM	S	S 75L							
4	BHS-0	0126-20		Room C4128		S		75L					
5	BHS-	0126-21		Room C4112		S		75L		_			
6	BHS-	0126-22		Room C4100		S	S 75L						
7	BHS-	0126-23		Room C5100		S		75L					
8	BHS-	0126-24		Room C5110		S		75L					
9	BHS-	0126-25		Room C5129		S		75L					
10													
11								_					
12													
13													
14				-									
15													
16													
	l eased by:		I	Date:	Received	d By:			M		Date: 1 . 27.2		
	Microbial Consu	Iltina, LLC.	3005 East Bo	undary Terrace, Suite F. Midlothian, VA. 23112	(804) 562-	3435 c	ontact	@hayesmicrob	al.com		Form #20, Rev.3, March Chain of		

RUN



#21011216

Analysis Report prepared for

Global, Inc.

1818 New York Ave. Suite 217 Washington, DC, 20002

Phone: (443) 691-0455

20-064 IAQ Reinspections Bladensburg High School

Collected: April 1, 2021 Received: April 2, 2021 Reported: April 2, 2021 We would like to thank you for trusting Hayes Microbial for your analytical needs! We received 5 samples by FedEx in good condition for this project on April 2nd, 2021.

The results in this analysis pertain only to this job, collected on the stated date, and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC..

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial. In no event, shall Hayes Microbial or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of the use of these test results.

John N. Hoyces

Steve Hayes, BSMT(ASCP) Laboratory Director Hayes Microbial Consulting, LLC.



EPA Laboratory ID: VA01419



Lab ID: #188863



DPH License: #PH-0198

3005 East Boundary Terrace, Suite F. Midlothian, VA. 23112

(804) 562-3435

Shane Prabuddha Global, Inc.

1818 New York Ave. Suite 217 Washington, DC, 20002 (443) 691-0455

20-064 IAQ Reinspections Bladensburg High School

#21011216

Spore Trap, Spore Trap Blank SOP - HMC#101

Sample Number	1	0	1	2	0		3	0		4	0	
Sample Name		Ambient		Clas	ssroom E21	04	Clas	ssroom C41	00	Clas	ssroom D21	09
Sample Volume		75.00 liter			75.00 liter			75.00 liter			75.00 liter	
Reporting Limit		13 spores/m ³	}		13 spores/m ³	}		13 spores/m ³			13 spores/m ³	
Background		2			2			2			2	
Fragments		13/m ³			ND			ND			ND	
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Tota
Alternaria												
Ascospores	15	200	68.2%	3	40	75.0%	1	13	100.0%	2	27	66.79
spergillus Penicillium												
Basidiospores	5	67	22.7%	1	13	25.0%				1	13	33.39
Bipolaris Drechslera												
Chaetomium												
Cladosporium	2	27	9.1%									
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	22	294	100%	4	53	100%	1	13	100%	3	40	1009
Water Damage Indicato	r	Commo	on Allergen		Slightly Higher	than Baseline	Signi	ficantly Higher	than Baseline		Ratio Abnormal	ity
		Collected: Apr 1	, 2021	Rece	eived: Apr 2, 202	21	Reported:	Apr 2, 2021				
	ES	Project Analyst: Ramesh Poluri.	Php P. R	Eamer	An	Date: 04 - 02 - 202	Reviewe Steve H	ed By: laves BSMT	ttophen 7	1. Hayes	Date:	2 - 2021

3005 East Boundary Terrace, Suite F. Midlothian, VA. 23112

contact@hayesmicrobial.com (804) 562-3435

Page: 2 of 5

Shane Prabuddha Global, Inc.

1818 New York Ave. Suite 217 Washington, DC, 20002 (443) 691-0455

20-064 IAQ Reinspections Bladensburg High School

#21011216

Spore Trap, Spore Trap Blank SOP - HMC#101

Sample Number	5	0	5								
Sample Name	F	Field Blank									
Sample Volume		0.00 liter									
Reporting Limit		1 spore/m ³									
Background		NBD									
Fragments		ND									
Organism	Raw Count	Count / m ³	% of Total								
Alternaria											
Ascospores											
Aspergillus Penicillium											
Basidiospores											
Bipolaris Drechslera											
Chaetomium											
Cladosporium											
Curvularia											
Epicoccum											
Fusarium											
Memnoniella											
Myxomycetes											
Pithomyces											
Stachybotrys				 							
Stemphylium				 							
Torula				 							
Ulocladium											
Total	ND	ND									
Water Damage Indicator Common Allergen		Slightly Higher than Baseline			ficantly Higher	than Baseline	Ratio Abnormality				

HAYES MICROBIAL CONSULTING

	Collected: Apr 1, 2021	Received: Apr 2, 202	21 F	Reported: Apr 2, 2021			
G	Project Analyst: Ramesh Poluri, PhD	ameth	Date: 04 - 02 - 2021	Reviewed By: Steve Hayes, BSMT	tephen N. Haye	Date:	2 - 2021
-	3005 East Boundary Terrace,	, Suite F. Midlothian, VA. 2	.3112 (804)	562-3435 cont	act@hayesmicrobial.co	m	Page: 3 of 5

Shane Prabuddha Global, Inc.

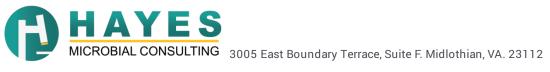
1818 New York Ave. Suite 217 Washington, DC, 20002 (443) 691-0455

20-064 IAQ Reinspections Bladensburg High School

Reporting Limit	The Reporting Limit is the lowest number of spores that can be detected based on the total volume of the sample collected and the percentage of the slide that is counted. At Hayes Microbial, 100% of the slide is read so the LOD is based solely on the total volume. Raw spore counts that exceed 500 spores will be estimated.
Blanks	Results have not been corrected for field or laboratory blanks.
Background	The Background is the amount of debris that is present in the sample. This debris consists of skin cells, dirt, dust, pollen, drywall dust and other organic and non-organic matter. As the background density increases, the likelihood of spores, especially small spores such as those of Aspergillus and Penicillium may be obscured. The background is rated on a scale of 1 to 5 and each level is determined as follows:
	 NBD: No background detected due to possible pump or cassette malfunction. Recollect sample. (Field Blanks will display NBD) 1 : <5% of field occluded. No spores will be uncountable. 2 : 5-25% of field occluded. 3 : 25-75% of field occluded. 4 : 75-90% of field occluded. 5 : >90% of field occluded. Suggested recollection of sample.
Fragments	Fragments are small pieces of fungal mycelium or spores. They are not identifiable as to type and when present in very large numbers, may indicate the presence of mold amplification.
Control Comparisons	There are no national standards for the numbers of fungal spores that may be present in the indoor environment. As a general rule and guideline that is widely accepted in the indoor air quality field, the numbers and types of spores that are present in the indoor environment should not exceed those that are present outdoors at any given time. There will always be some mold spores present in "normal" indoor environments. The purpose of sampling and counting spores is to help determine whether an abnormal condition exists within the indoor environment and if it does, to help pinpoint the area of contamination. Spore counts should not be used as the sole determining factor of mold contamination. There are many factors that can cause anomalies in the comparison of indoor and outdoor samples due to the dynamic nature of both of those environments.
Water Damage Indicator	Blue: These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem.
Common Allergen	Green: Although all molds are potential allergens, these are the most common allergens that may be found indoors.
Slightly Higher than Baseline	Orange: The spore count is slightly higher than the outside count and may or may not indicate a source of contamination. Red: The spore count is significantly higher than the baseline count and probably indicates a source of contamination.
Significantly Higher than Baseline	
Ratio Abnormality	Violet: The types of spores found indoors should be similar to the ones that were identified in the baseline sample. Significant increases (more than 25%) in the ratio of a particular spore type may indicate the presence of abnormal levels of mold, even if the total number of spores of that type is lower in the indoor environment than it was outdoors.
Color Coding	Fungi that are present in indoor samples at levels lower than 200 per cubic meter are not color coded on the report, unless they are one of the water damage indicators.



Shane Prabuddha Global, Inc.		20-064 #21011216 IAQ Reinspections
1818 New York Ave. Suite 217 Washington, DC, 20002 (443) 691-0455		Bladensburg High School Organism Descriptions
Ascospores	Habitat:	A large group consisting of more than 3000 species of fungi. Common plant pathogens and outdoor numbers become very high following rain. Most of the genera are indistinguishable by spore trap analysis and are combined on the report.
	Effects:	Health affects are poorly studied, but many are likely to be allergenic.
Basidiospores	Habitat:	A common group of Fungi that includes the mushrooms and bracket fungi. They are saprophytes and plant pathogens. In wet conditions they can cause structural damage to buildings.
	Effects:	Common allergens and are also associated with hypersensitivity pneumonitis.
Cladosporium	Habitat:	One of the most common genera worldwide. Found in soil and plant debris and on the leaf surfaces of living plants. The outdoor numbers are lower in the winter and often relatively high in the summer, especially in high humidity. The outdoor numbers often spike in the late afternoon
	Effects:	and evening. Indoors, it can be found growing on textiles, wood, sheetrock, moist window sills and in HVAC supply ducts. A common allergen, producing more than 10 allergenic antigens and a common cause of hypersensitivity pneumonitis.





ompany	agic	bal,	Inc			
				Ave	hue	Suite
	217,1	vashir	igton	De	200	02





	Job	Number: 20-	064		Job Name:	IAR Reinsp	vections.							21011216
	Colle	ector: Shane	Prabuddha	а	Bla	IAQ Reinsp densburg H	igh school	Γ	Mobile	443-6	91-0455	Email:	Chan	nab@globalincusa.net
	Date	Collected: Q	4/01/21						Note:					
		Analysis Typ	e			Analysis Description	n		Turn	around		Acce	epted Me	edia Types
	Spor	e Trap	S	Identificatio	dentification & Enumeration of Fungal Spores				24 Ho	ur	Air Casse	ttes, Impact	t Slides	
			S+	Spore Trap	ore Trap Analysis with Dander, Fiber, and Pollen counts				24 Ho	ur	Air Casse	ttes, Impact	Slides	
	Direc	t ID	D	ID & Semi-C	Quantative Enur	meration of spores an	nd mycelium		24 Ho	ur	Bio-Tape,	Tape, Swab	, Bulk, A	Agar Plate
					ysis with Fully (Quantitative spore co	unt		24 Ho	ur	Bio-Tape,	Tape, Swab	, Bulk, A	Agar Plate
					on & Enumeration	on of Mold only			7 Day		Air Plate,	Agar Plate,	Swab, B	Bulk
					on & Enumeratio	on of Bacteria only			4 Day		Air Plate,	Agar Plate,	Swab, B	Bulk
			C3	Identificatio	on & Enumeratio	on of Mold and Bacte	ria		7 Day		Air Plate,	Agar Plate,	Swab, B	Bulk
			C5	Coliform Sc	reen for Sewag	je Bacteria		_	2 Day		Agar Plate	e, Swab, Bul	k	
	Parti	cle	TPA	Total Partic	ulate Analysis,	ID & Count (Does No	t Include Mold)		24 Ho	Jr	Air Casse	ttes, Impact	Slides,	Віо-Таре
	#	Numb	ber			Sample		Analysi	s	Volume			No	otes
1L	1	01			Amb	sient	1 ¹	S		75L	1:55	s RH: L	13	Co2:551 CO: 0
	2	02		C	ass Room	Ê2104		5		75L	1-62	1 12H'. L	17	Co2: 530 Co: 0
	3	03		c	ass Room	C4100		S		75L	1:7		401	Co2:449Cor. P
	4	04		C	lass Room	n D2/09		5		7SL	1:65	5 R14: L	13	Co2: 489 Co: 0
1	5	05			Field bl	ank		5						= 25
	6													
	7		e na hara an											
	8													
	9						<u>1</u>							
	10				en longer en de longer en de la constante en de									
	11													
	12						1							
	13													
	14													
	15						1							
	16				1		1							
L		ased by: Sha			ndary Terrace Sui	Date: 04/01 2		-		<u>P</u> vesmicrobia	al.com			Date: 4/2/2 Form #20, Rev.3, March 23, 20

Form #20, Rev.3, March 23, 2019 Chain of Custody