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# INDOOR AIR QUALITY EVALUATION MOLD ANALYSIS REPORT

## Indiana Avenue School #18 – Routine Monthly Sampling

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256 Indiana Avenue | Iselin, NJ 08830

Woodbridge Twp. School District  
PO Box 428 School Street  
Woodbridge, NJ 07095

Survey date:  
Inspection performed by:

May 15, 2019  
John Smoyer

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AHERA Consultants Inc. was retained by the Woodbridge Twp. School District to conduct routine indoor air quality analysis and testing for mold in various random rooms of the Indiana Avenue School #18. This study was performed at the request of Dr. Robert Zega in response to concerns by school staff over time. A monthly schedule was established by the Woodbridge Township School District for routine sampling throughout the school year. This month, ten (10) rooms were selected for testing as well as an outside control sample.

## Existing Conditions

On May 15, 2019, I John Smoyer, Operations Manager from AHERA Consultants, Inc. arrived at the Indiana Avenue School and met with the custodian to examine ten rooms designated by Dr. Zega and the School Principal for testing.

I visually inspected the areas of concern and my findings are as follows:

**Classroom 30:** 2x4 drop ceiling tiles, block walls, 12" VCT floors, 1-UV running/1-UV off. AC present but not on, dehumidifier on but not running. No visible signs of mold or standing water. No occupants in room and windows closed. Checked under room content, in closets, bathrooms and under sinks, no visible signs of molds or excessive moisture.

**Classroom 29:** 2x4 drop ceiling tiles, block walls, 12" VCT floors, 1-UV running/1-UV off. AC present but not on, dehumidifier running 50% full. No visible signs of mold or standing water. No occupants in room and windows closed. Checked under room content, in closets, bathrooms and under sinks, no visible signs of molds or excessive moisture.

**Classroom 28:** 2x4 drop ceiling tiles, block walls, 12" VCT floors, UV running. AC present but not on, dehumidifier off set to 40%. No visible signs of mold or standing water. No occupants in room and windows closed. Checked under room content, in closets, hooks, no visible signs of molds or excessive moisture. Room content low and dust minimal.

**Classroom 27:** 2x4 drop ceiling tiles, block walls, 12" VCT floors, UV running. AC present but not on, dehumidifier set to 40% and ½ full and not running. No tack strips on walls yet. No visible signs of mold or standing water. Checked under room content, in closets and room has minimal contents. No occupants in room and windows closed.

**Classroom 4:** Spline ceiling tiles, plaster walls, 12" VCT floors, UV running. AC present but not on, windows closed. No visible signs of mold or standing water. No occupants in room at the time of testing and the built-in lockers appear dirty but not moldy.

**Classroom 7:** 2x2 drop ceiling tiles, block walls, 12" VCT floors, windows closed window A/C off, 1-UV running. Checked desks & Tables and found no signs of suspect mold or standing water.

**Classroom 3:** Spline Ceiling tiles, 9" VAT floors, plaster walls, windows closed & A/C unit off, 1-UV running. Lockers present, dirty but no signs of mold. Checked under room content, in closets, hooks, no visible signs of molds or excessive moisture. Room content low and dust minimal.

**Classroom 2:** Spline ceilings, plaster walls, 9" vat floors, 1-UV running, window AC off, windows closed. Lockers present, dirty but no signs of mold. Checked under room content, in closets, hooks, no visible signs of molds or excessive moisture. Room content low and dust minimal.

**Classroom 1:** 2x2 drop ceiling tiles, plaster walls, VCT flooring, plaster walls, 1-UV Running, windows closed A/C unit off, Lockers present, dirty but no signs of mold. Checked under room content, in closets, hooks, no visible signs of molds or excessive moisture. Room content low and dust minimal.

**Classroom 31:** 2x4 drop ceiling tiles, plaster walls, VCT floors, 1-UV running, window closed and A/C unit off. Dehumidifier 50% ½ full running. Checked under room content, in closets, bookshelves, no visible signs of molds or excessive moisture. Room content moderate and dust minimal.

**Outside Control Sample:** Collected comparative samples outside the side entrance by gym. temp 71°F Dewpoint 41° humidity 35%.

Based on our observations and sampling plan discussed with the School District, I determined that I would conduct ambient Air-o-Cell air sampling and assess the current air quality conditions with respect to temperature, humidity, carbon dioxide (CO<sup>2</sup>) carbon monoxide (CO) within the spaces and collect a sample outside the building as a control sample.

## Section III

## Sampling Procedures

- ◇ A visual inspection was performed within each area for evidence of conditions that might contribute to microbial proliferation.
- ◇ Indoor air quality measurements for temperature, humidity, CO<sup>2</sup> and CO were taken utilizing a Model 7545 IAQ-Calc Indoor Air Quality Meter in above listed areas as well as a control sample outside the rear entrance.
- ◇ An Air Sampling Pump calibrated to 15 LPM was set up in each area of concern; additionally, an outdoor control sample was collected. Air sampling for airborne fungi was performed utilizing Zefon Air-O-Cell Cassettes. 150 liters of air was drawn through each sample. The sampling media was submitted to EMSL Analytical Laboratories in Piscataway, NJ for analysis. Air samples were analyzed within a 48-hour turnaround period.

◇ Table 1: Air -O-Cell Sampling Results

April 16, 2019

## ANALYSIS OF FUNGAL SPORES &amp; PARTICULATES BY OPTICAL MICROSCOPY: AIR-O-CELL Cassette

SAMPLE ID #	SAMPLE LOCATION	PARTICLE ID	COUNT/ m <sup>3</sup>
3262-51519-01	Classroom 30	Ascospores	3090
		Aspergillus/Penicillium	70
		Basidiospores	2500
		Cladosporium	20
		<b>Total Fungi</b>	<b>5680</b>
3262-51519-01	Classroom 29	Ascospores	1700
		Basidiospores	1300
		<b>Total Fungi</b>	<b>3000</b>
3262-51519-01	Classroom 28	Ascospores	1400
		Aspergillus/Penicillium	70
		Basidiospores	970
		Cladosporium	70
		Myxomycetes++	40
		<b>Total Fungi</b>	<b>2550</b>
3262-51519-01	Classroom 27	Ascospores	880
		Aspergillus/Penicillium	20
		Basidiospores	1300
		<b>Total Fungi</b>	<b>2200</b>
3262-51519-01	Classroom 7	Ascospores	460
		Aspergillus/Penicillium	20
		Basidiospores	310
		<b>Total Fungi</b>	<b>790</b>
3262-51519-01	Classroom 4	Ascospores	640
		Basidiospores	530
		Cladosporium	20
		<b>Total Fungi</b>	<b>1190</b>
3262-51519-01	Classroom 3	Ascospores	350
		Basidiospores	310
		Pithomyces++	20
		<b>Total Fungi</b>	<b>680</b>
3262-51519-01	Classroom 2	Ascospores	310
		Aspergillus/Penicillium	90
		Basidiospores	310
		<b>Total Fungi</b>	<b>710</b>
3262-51519-01	Classroom 1	Ascospores	910
		Aspergillus/Penicillium	70
		Basidiospores	860
		Cladosporium	70
		<b>Total Fungi</b>	<b>1910</b>
3262-51519-01	Classroom 31	Ascospores	270
		Basidiospores	400
		Cladosporium	40
		<b>Total Fungi</b>	<b>710</b>
3262-51519-01	Outside Control	Alternaria (Ulocladium)	20
		Ascospores	6490
		Aspergillus/Penicillium	100
		Basidiospores	14700
		Cladosporium	570
		Myxomycetes++	90
		Fusicladium/Venturia	20
		Pestalotia/Pestalotiopsis	20
		<b>Total Fungi</b>	<b>22010</b>
		<b>Pollen</b>	<b>380</b>

**Results:** Levels of fungi found in the spaces were in line with what was found on the outside control sample.

## Section V

## Interpretation of Results

At this time, there are no governmental standards regarding Indoor Air Quality. The Occupational Safety and Health Association (OSHA) and the National Institute of Occupational Safety and Health (NIOSH), as well as other occupational health related associations, have not established permissible exposure levels (PELs), recommended exposure limits (RELs), or other limit values for aeroallergens. (See EMSL Expanded Fungal Report) provided herein.

Most of the fungi detected in typical indoor investigations are considered common to both indoor and outdoor environments. These include species that belong to the genera Cladosporium, Aspergillus, Penicillium, Alternaria, Basidiospores and others. False negative and false positive data are possible. However, it is generally accepted in the "indoor air quality" industry that indoor fungal growth is undesirable and may necessitate removal or other appropriate remedial actions.

No remedial project should be based solely on data obtained from culturable fungal bioaerosols to represent a threshold value having a medical or health significance with respect to exposure, nor is it necessarily representative of an unacceptable indoor environment. Rather, it is intended to be a "reactionary threshold" to incite further investigation as to the cause(s) of what is considered to be an above average concentration for culturable indoor bioaerosols.

Under the Public Employees Occupational Safety and Health Program there is currently an indoor air quality standard for the state of New Jersey (NJAC 12:100-13). Additionally, there are recommendations under ASHRAE "The American Society of Heating, Refrigeration, and Air Conditioning Engineers for the Indoor Environment.

Under NJAC 12:100-13 a range of 68 to 79 degrees Fahrenheit is the desired temperature range to maintain with Carbon Dioxide (CO<sup>2</sup>) not exceeding 1000 ppm. If Carbon Dioxide (CO<sup>2</sup>) exceeds 1000 ppm, the HVAC system should be evaluated for proper operation.

ASHRAE recommends that a relative humidity between 30% and 60% are acceptable, readings in excess of 70% is considered a friendly environment to microorganisms such as mold.

Carbon Monoxide (CO) levels based on OSHA limits long-term workplace exposure levels to 50 ppm over an 8-hour time weighted average. The Threshold Limit Value or TLV for carbon monoxide is 25 ppm.

## Section VI

## Observations/Recommended Response Actions

**Findings:** The results of the ambient air sample sampling from all areas tested during this round of testing found spore counts to be in line with the outside control sample. CO<sup>2</sup> levels in all rooms tested were less than 1000 PPM.

**Recommendations:** To prevent creating environments that would promote mold proliferation all sources of excessive moisture/water infiltration should be identified, controlled and/or eliminated when/if they occur.

Clutter should be kept to a minimum and routine maintenance of HVAC systems should be followed.

IAQ Calc Data Sheets (11 Pages)  
EMSL laboratory report (4 Pages)

IAQ Investigation Log		
Test ID:	School #18	Classroom # 30
Model Number:	7545	
Serial Number:	T75450953002	
Test ID:	15	
Test Abbreviation:	Test 015	
Start Date:	5/15/19	
Start Time:	16:17:07	
Duration (dd:hh:mm:ss):	0:00:00:53	
Log Interval (mm:ss):	0:05	
Number of points:	5	
Notes:	Test 015	



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	552	78	33.9	2.5
	Minimum:	490	76.1	33	2.2
	Time of Minimum:	16:17:48	16:18:00	16:17:25	16:17:36
	Date of Minimum:	5/15/19	5/15/19	5/15/19	5/15/19
	Maximum:	714	80.6	34.6	3.6
	Time of Maximum:	16:17:12	16:17:12	16:18:00	16:17:12
	Date of Maximum:	5/15/19	5/15/19	5/15/19	5/15/19

Calibration	Meter:	1/31/19			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	1/31/19	1/31/19	1/31/19	1/31/19

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
5/15/19	16:17:12	714	80.6	34.5	3.6
5/15/19	16:17:25	566	78.5	33	2.3
5/15/19	16:17:36	497	77.5	33.2	2.2
5/15/19	16:17:48	490	77.1	34	2.2
5/15/19	16:18:00	492	76.1	34.6	2.3

IAQ Investigation Log		
Test ID:	School #18	Classroom # 29
Model Number:	7545	
Serial Number:	T75450953002	
Test ID:	16	
Test Abbreviation:	Test 016	
Start Date:	5/15/19	
Start Time:	16:27:20	
Duration (dd:hh:mm:ss):	0:00:01:02	
Log Interval (mm:ss):	0:05	
Number of points:	5	
Notes:	Test 016	



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	506	73.2	40.4	1.1
	Minimum:	490	73	39.9	0.9
	Time of Minimum:	16:27:53	16:28:22	16:27:25	16:27:25
	Date of Minimum:	5/15/19	5/15/19	5/15/19	5/15/19
	Maximum:	524	73.6	40.8	1.2
	Time of Maximum:	16:27:25	16:27:25	16:28:22	16:28:22
	Date of Maximum:	5/15/19	5/15/19	5/15/19	5/15/19

Calibration	Meter:	1/31/19			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	1/31/19	1/31/19	1/31/19	1/31/19

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
5/15/19	16:27:25	524	73.6	39.9	0.9
5/15/19	16:27:39	508	73.2	40.3	1.1
5/15/19	16:27:53	490	73.1	40.2	1.1
5/15/19	16:28:10	499	73.1	40.5	1.1
5/15/19	16:28:22	511	73	40.8	1.2

IAQ Investigation Log	
Test ID:	School #18 Classroom # 28
Model Number:	7545
Serial Number:	T75450953002
Test ID:	17
Test Abbreviation:	Test 017
Start Date:	5/15/19
Start Time:	16:36:34
Duration (dd:hh:mm:ss):	0:00:00:53
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 017



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	492	72.9	40.5	1
	Minimum:	469	72.8	40.4	0.9
	Time of Minimum:	16:36:51	16:36:51	16:36:39	16:36:39
	Date of Minimum:	5/15/19	5/15/19	5/15/19	5/15/19
	Maximum:	525	73	40.8	1.1
	Time of Maximum:	16:37:14	16:37:03	16:37:14	16:37:03
	Date of Maximum:	5/15/19	5/15/19	5/15/19	5/15/19

Calibration	Meter:	1/31/19			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	1/31/19	1/31/19	1/31/19	1/31/19

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
5/15/19	16:36:39	478	72.9	40.4	0.9
5/15/19	16:36:51	469	72.8	40.4	0.9
5/15/19	16:37:03	510	73	40.6	1.1
5/15/19	16:37:14	525	72.9	40.8	1.1
5/15/19	16:37:27	481	72.9	40.6	1



IAQ Investigation Log		
Test ID:	School #18	Classroom # 27
Model Number:	7545	
Serial Number:	T75450953002	
Test ID:	18	
Test Abbreviation:	Test 018	
Start Date:	5/15/19	
Start Time:	16:49:20	
Duration (dd:hh:mm:ss):	0:00:01:06	
Log Interval (mm:ss):	0:05	
Number of points:	5	
Notes:	Test 018	



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	486	73.2	40.9	1.6
	Minimum:	468	73	40.6	1.2
	Time of Minimum:	16:50:26	16:49:25	16:50:12	16:50:26
	Date of Minimum:	5/15/19	5/15/19	5/15/19	5/15/19
	Maximum:	504	73.3	41.4	3
	Time of Maximum:	16:49:25	16:50:12	16:49:25	16:49:25
	Date of Maximum:	5/15/19	5/15/19	5/15/19	5/15/19

Calibration	Meter:	1/31/19			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	1/31/19	1/31/19	1/31/19	1/31/19

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
5/15/19	16:49:25	504	73	41.4	3
5/15/19	16:49:39	501	73.2	41.2	1.5
5/15/19	16:49:57	471	73.3	40.9	1.3
5/15/19	16:50:12	485	73.3	40.6	1.2
5/15/19	16:50:26	468	73.3	40.6	1.2

IAQ Investigation Log		
Test ID:	School #18	Classroom # 4
Model Number:	7545	
Serial Number:	T75450953002	
Test ID:	19	
Test Abbreviation:	Test 019	
Start Date:	5/15/19	
Start Time:	17:01:09	
Duration (dd:hh:mm:ss):	0:00:00:52	
Log Interval (mm:ss):	0:05	
Number of points:	5	
Notes:	Test 019	



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	443	71	40.3	1.1
	Minimum:	420	70.9	40.2	0.9
	Time of Minimum:	17:01:50	17:01:50	17:01:26	17:01:50
	Date of Minimum:	5/15/19	5/15/19	5/15/19	5/15/19
	Maximum:	462	71.3	40.4	1.4
	Time of Maximum:	17:01:26	17:01:14	17:01:38	17:01:14
	Date of Maximum:	5/15/19	5/15/19	5/15/19	5/15/19

Calibration	Meter:	1/31/19			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	1/31/19	1/31/19	1/31/19	1/31/19

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
5/15/19	17:01:14	443	71.3	40.2	1.4
5/15/19	17:01:26	462	71.2	40.2	1.2
5/15/19	17:01:38	439	71	40.4	1
5/15/19	17:01:50	420	70.9	40.2	0.9
5/15/19	17:02:01	451	70.9	40.3	1

IAQ Investigation Log		
Test ID:	School #18	Classroom # 7
Model Number:	7545	
Serial Number:	T75450953002	
Test ID:	20	
Test Abbreviation:	Test 020	
Start Date:	5/15/19	
Start Time:	17:08:21	
Duration (dd:hh:mm:ss):	0:00:00:54	
Log Interval (mm:ss):	0:05	
Number of points:	5	
Notes:	Test 020	



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	438	71.1	39.6	1
	Minimum:	416	71	39.3	0.9
	Time of Minimum:	17:08:26	17:08:26	17:09:15	17:08:26
	Date of Minimum:	5/15/19	5/15/19	5/15/19	5/15/19
	Maximum:	463	71.2	39.8	1
	Time of Maximum:	17:09:03	17:09:15	17:08:39	17:08:52
	Date of Maximum:	5/15/19	5/15/19	5/15/19	5/15/19

Calibration	Meter:	1/31/19			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	1/31/19	1/31/19	1/31/19	1/31/19

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
5/15/19	17:08:26	416	71	39.8	0.9
5/15/19	17:08:39	454	71.1	39.8	1
5/15/19	17:08:52	435	71.1	39.5	1
5/15/19	17:09:03	463	71.2	39.5	1
5/15/19	17:09:15	424	71.2	39.3	0.9

IAQ Investigation Log		
Test ID:	School #18	Classroom # 3
Model Number:	7545	
Serial Number:	T75450953002	
Test ID:	21	
Test Abbreviation:	Test 021	
Start Date:	5/15/19	
Start Time:	17:15:41	
Duration (dd:hh:mm:ss):	0:00:00:50	
Log Interval (mm:ss):	0:05	
Number of points:	5	
Notes:	Test 021	



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	435	71.1	40.4	1
	Minimum:	416	71.1	40.4	0.9
	Time of Minimum:	17:15:46	17:15:58	17:15:46	17:15:58
	Date of Minimum:	5/15/19	5/15/19	5/15/19	5/15/19
	Maximum:	452	71.2	40.5	1.1
	Time of Maximum:	17:16:31	17:16:20	17:16:20	17:16:09
	Date of Maximum:	5/15/19	5/15/19	5/15/19	5/15/19

Calibration	Meter:	1/31/19			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	1/31/19	1/31/19	1/31/19	1/31/19

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
5/15/19	17:15:46	416	71.1	40.4	0.9
5/15/19	17:15:58	419	71.1	40.4	0.9
5/15/19	17:16:09	449	71.1	40.4	1.1
5/15/19	17:16:20	439	71.2	40.5	0.9
5/15/19	17:16:31	452	71.1	40.5	1.1

IAQ Investigation Log		
Test ID:	School #18	Classroom # 2
Model Number:	7545	
Serial Number:	T75450953002	
Test ID:	22	
Test Abbreviation:	Test 022	
Start Date:	5/15/19	
Start Time:	17:21:29	
Duration (dd:hh:mm:ss):	0:00:00:56	
Log Interval (mm:ss):	0:05	
Number of points:	5	
Notes:	Test 022	



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	425	71.1	40.3	0.9
	Minimum:	414	71	40.2	0.8
	Time of Minimum:	17:22:25	17:22:01	17:21:34	17:22:01
	Date of Minimum:	5/15/19	5/15/19	5/15/19	5/15/19
	Maximum:	441	71.1	40.5	0.9
	Time of Maximum:	17:21:48	17:21:34	17:22:25	17:21:34
	Date of Maximum:	5/15/19	5/15/19	5/15/19	5/15/19

Calibration	Meter:	1/31/19			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	1/31/19	1/31/19	1/31/19	1/31/19

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
5/15/19	17:21:34	422	71.1	40.2	0.9
5/15/19	17:21:48	441	71.1	40.3	0.9
5/15/19	17:22:01	418	71	40.3	0.8
5/15/19	17:22:13	429	71.1	40.5	0.9
5/15/19	17:22:25	414	71.1	40.5	0.9

IAQ Investigation Log	
Test ID:	School #18 Classroom # 1
Model Number:	7545
Serial Number:	T75450953002
Test ID:	23
Test Abbreviation:	Test 023
Start Date:	5/15/19
Start Time:	17:27:44
Duration (dd:hh:mm:ss):	0:00:00:56
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 023



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	428	70.8	38.6	0.9
	Minimum:	418	70.7	38.5	0.8
	Time of Minimum:	17:28:02	17:28:14	17:27:49	17:28:02
	Date of Minimum:	5/15/19	5/15/19	5/15/19	5/15/19
	Maximum:	446	70.9	38.9	1.1
	Time of Maximum:	17:27:49	17:27:49	17:28:40	17:28:26
	Date of Maximum:	5/15/19	5/15/19	5/15/19	5/15/19

Calibration	Meter:	1/0/00			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	1/31/19	1/31/19	1/31/19	1/31/19

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
5/15/19	17:27:49	446	70.9	38.5	1
5/15/19	17:28:02	418	70.9	38.5	0.8
5/15/19	17:28:14	419	70.7	38.6	0.9
5/15/19	17:28:26	425	70.8	38.7	1.1
5/15/19	17:28:40	431	70.8	38.9	0.9

IAQ Investigation Log	
Test ID:	School #18 Classroom # 31
Model Number:	7545
Serial Number:	T75450953002
Test ID:	24
Test Abbreviation:	Test 024
Start Date:	5/15/19
Start Time:	17:34:07
Duration (dd:hh:mm:ss):	0:00:01:00
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 024



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	538	70.9	40.6	0.9
	Minimum:	507	70.8	40.4	0.9
	Time of Minimum:	17:34:54	17:35:07	17:34:39	17:34:54
	Date of Minimum:	5/15/19	5/15/19	5/15/19	5/15/19
	Maximum:	583	71	40.7	1
	Time of Maximum:	17:34:12	17:34:12	17:34:12	17:34:12
	Date of Maximum:	5/15/19	5/15/19	5/15/19	5/15/19

Calibration	Meter:	1/31/19			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	1/31/19	1/31/19	1/31/19	1/31/19

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
5/15/19	17:34:12	583	71	40.7	1
5/15/19	17:34:25	555	70.9	40.6	1
5/15/19	17:34:39	531	70.8	40.4	0.9
5/15/19	17:34:54	507	70.9	40.4	0.9
5/15/19	17:35:07	513	70.8	40.7	1

IAQ Investigation Log	
Test ID:	School #18 OUTSIDE CONTROL SAMPLE
Model Number:	7545
Serial Number:	T75450953002
Test ID:	25
Test Abbreviation:	Test 025
Start Date:	5/15/19
Start Time:	17:46:40
Duration (dd:hh:mm:ss):	0:00:01:06
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 025



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	442	69.2	40.5	1.1
	Minimum:	406	68.3	39.6	1
	Time of Minimum:	17:47:46	17:47:46	17:47:14	17:47:46
	Date of Minimum:	5/15/19	5/15/19	5/15/19	5/15/19
	Maximum:	567	69.9	42.5	1.2
	Time of Maximum:	17:46:45	17:46:45	17:47:46	17:47:25
	Date of Maximum:	5/15/19	5/15/19	5/15/19	5/15/19

Calibration	Meter:	1/31/19			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	1/31/19	1/31/19	1/31/19	1/31/19

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
5/15/19	17:46:45	567	69.9	40.2	Invalid
5/15/19	17:47:03	410	69	39.6	1.1
5/15/19	17:47:14	412	69.3	39.6	1.1
5/15/19	17:47:25	417	69.3	40.7	1.2
5/15/19	17:47:46	406	68.3	42.5	1





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**EMSL Order:** 371910895  
**Customer ID:** AHER50  
**Customer PO:**  
**Project ID:**

**Attn:** John Smoyer  
Ahera Consultants, Inc.  
PO Box 385  
Oceanville, NJ 08231-0385

**Phone:** (609) 652-1833  
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**Collected:** 05/15/2019  
**Received:** 05/16/2019  
**Analyzed:** 05/18/2019

**Project:** Indiana Avenue School #18 - IAQ / 18-3262

### Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number:	371910895-0001			371910895-0002			371910895-0003		
Client Sample ID:	3262-51519-01			3262-51519-02			3262-51519-03		
Volume (L):	150			150			150		
Sample Location	Classroom #30			Classroom #29			Classroom #28		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	140	3090	54.4	75	1700	56.7	63	1400	54.9
Aspergillus/Penicillium	3	70	1.2	-	-	-	3	70	2.7
Basidiospores	113	2500	44	61	1300	43.3	44	970	38
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	3*	20*	0.4	-	-	-	3	70	2.7
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	2	40	1.6
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Fusicladium/Venturia	-	-	-	-	-	-	-	-	-
Pestalotia/Pestalotiopsis	-	-	-	-	-	-	-	-	-
<b>Total Fungi</b>	<b>259</b>	<b>5680</b>	<b>100</b>	<b>136</b>	<b>3000</b>	<b>100</b>	<b>115</b>	<b>2550</b>	<b>100</b>
Hyphal Fragment	-	-	-	-	-	-	1	20	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	22	-	-	22	-	-	22	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	2	-	-	1	-	-	2	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	2	-

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



Vincent Iuzzolino, M.S., Laboratory Manager  
or other approved signatory

No discernable field blank was submitted with this group of samples.

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--EMLAP Lab 100194

Initial report from: 05/18/2019 19:36:47

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**Collected:** 05/15/2019  
**Received:** 05/16/2019  
**Analyzed:** 05/18/2019

**Project:** Indiana Avenue School #18 - IAQ / 18-3262

### Test Report: Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number:	371910895-0004			371910895-0005			371910895-0006		
Client Sample ID:	3262-51519-04			3262-51519-05			3262-51519-06		
Volume (L):	150			150			150		
Sample Location	Classroom #27			Classroom #7			Classroom #4		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	40	880	40	21	460	58.2	29	640	53.8
Aspergillus/Penicillium	1	20	0.9	1	20	2.5	-	-	-
Basidiospores	57	1300	59.1	14	310	39.2	24	530	44.5
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	1	20	1.7
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Fusicladium/Venturia	-	-	-	-	-	-	-	-	-
Pestalotia/Pestalotiopsis	-	-	-	-	-	-	-	-	-
<b>Total Fungi</b>	<b>98</b>	<b>2200</b>	<b>100</b>	<b>36</b>	<b>790</b>	<b>100</b>	<b>54</b>	<b>1190</b>	<b>100</b>
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	1*	7*	-	-	-	-
Analyt. Sensitivity 600x	-	22	-	-	22	-	-	22	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
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.



Vincent Iuzzolino, M.S., Laboratory Manager  
or other approved signatory

No discernable field blank was submitted with this group of samples.

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--EMLAP Lab 100194

Initial report from: 05/18/2019 19:36:47

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**Collected:** 05/15/2019  
**Received:** 05/16/2019  
**Analyzed:** 05/18/2019

**Project:** Indiana Avenue School #18 - IAQ / 18-3262

### Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number:	371910895-0007			371910895-0008			371910895-0009		
Client Sample ID:	3262-51519-07			3262-51519-08			3262-51519-09		
Volume (L):	150			150			150		
Sample Location	Classroom #3			Classroom #2			Classroom #1		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	16	350	51.5	14	310	43.7	41	910	47.6
Aspergillus/Penicillium	-	-	-	4	90	12.7	3	70	3.7
Basidiospores	14	310	45.6	14	310	43.7	39	860	45
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	3	70	3.7
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	1	20	2.9	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Fusicladium/Venturia	-	-	-	-	-	-	-	-	-
Pestalotia/Pestalotiopsis	-	-	-	-	-	-	-	-	-
<b>Total Fungi</b>	<b>31</b>	<b>680</b>	<b>100</b>	<b>32</b>	<b>710</b>	<b>100</b>	<b>86</b>	<b>1910</b>	<b>100</b>
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	1	20	-
Analyt. Sensitivity 600x	-	22	-	-	22	-	-	22	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
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.



Vincent Iuzzolino, M.S., Laboratory Manager  
or other approved signatory

No discernable field blank was submitted with this group of samples.

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**Collected:** 05/15/2019  
**Received:** 05/16/2019  
**Analyzed:** 05/18/2019

**Project:** Indiana Avenue School #18 - IAQ / 18-3262

### Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number:	371910895-0010			371910895-0011		
Client Sample ID:	3262-51519-10			3262-51519-11		
Volume (L):	150			150		
Sample Location	Classroom #31			Outside Control Sample		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	1	20	0.1
Ascospores	12	270	38	294	6490	29.5
Aspergillus/Penicillium	-	-	-	5	100	0.5
Basidiospores	18	400	56.3	666	14700	66.8
Bipolaris++	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-
Cladosporium	2	40	5.6	26	570	2.6
Curvularia	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-
Myxomycetes++	-	-	-	4	90	0.4
Pithomyces++	-	-	-	-	-	-
Rust	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-
Fusicladium/Venturia	-	-	-	1	20	0.1
Pestalotia/Pestalotiopsis	-	-	-	1	20	0.1
<b>Total Fungi</b>	<b>32</b>	<b>710</b>	<b>100</b>	<b>998</b>	<b>22010</b>	<b>100</b>
Hyphal Fragment	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-
Pollen	1*	7*	-	17	380	-
Analyt. Sensitivity 600x	-	22	-	-	22	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-
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.



Vincent Iuzzolino, M.S., Laboratory Manager  
or other approved signatory

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### MICROBIOLOGY – CHAIN OF CUSTODY

Date Collected	05/15/2019	Date Submitted:	05/16/2019
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Client: Woodbridge Township School Dist.	E-mail:	ahera@comcast.net	

Job Number: 18-3262 - INDIANA AVE SCHOOL #18 - IAQ

<p><b>Air Samples</b></p> <p><input checked="" type="checkbox"/> Mold &amp; Fungi by Air-O-Cell Cassette (Select turnaround time)</p> <p><input type="checkbox"/> Mold &amp; Fungi by Agar Plate (Count &amp; identification)</p> <p><input type="checkbox"/> Mold &amp; Fungi by Agar Plate (Count only)</p> <p><input type="checkbox"/> Bacterial Count &amp; Gram Stain</p> <p><input type="checkbox"/> Bacterial Count &amp; Identification (Three most prominent types)</p> <p><b>Water Samples</b></p> <p><input type="checkbox"/> Total Count, Coliforms, Fecal Coliforms (Specify) _____</p> <p><input type="checkbox"/> Other (Specify) _____</p>	<p><b>Wipe &amp; Bulk Samples</b></p> <p><input type="checkbox"/> Mold &amp; Fungi – Direct Examination (Select turnaround time) Submit cellophane tape sample or bulk</p> <p><input type="checkbox"/> Mold &amp; Fungi – Direct Examination-Follow up examination by culture if necessary</p> <p><input type="checkbox"/> Mold &amp; Fungi – Culture (ID &amp; Count)</p> <p><input type="checkbox"/> Mold &amp; Fungi – Culture (Count only)</p> <p><input type="checkbox"/> Bacterial Count &amp; Gram Stain</p> <p><input type="checkbox"/> Bacterial Count &amp; Identification (Three most prominent types)</p>
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RECEIVED  
 EMSSL  
 CINNAMINSON, N.J.  
 2019 MAY 16 P 4:14

**TURN AROUND TIME:**

SAME DAY  
  1 DAY  
  2 DAY  
  3 DAY  
  4 DAY  
  5 DAY  
  6-10 DAY

SAMPLE ID	LOCATION	VOLUME	COMMENTS
3262-51519-01	CLASSROOM #30	150L	Q-15
3262-51519-02	CLASSROOM #29	150L	Q-16
3262-51519-03	CLASSROOM #28	150L	Q-17
3262-51519-04	CLASSROOM #27	150L	Q-18
3262-51519-05	CLASSROOM #7	150L	Q-20
3262-51519-06	CLASSROOM #4	150L	Q-19 *
3262-51519-07	CLASSROOM #3	150L	Q-21
3262-51519-08	CLASSROOM #2	150L	Q-22
3262-51519-09	CLASSROOM #1	150L	Q-23
3262-51519-10	CLASSROOM #31	150L	Q-24
3262-51519-11	OUTSIDE CONTROL SAMPLE	150L	Q-25

Relinquished by:	Technician Signature: <i>[Signature]</i>	Date: 05/15/2019	Time:
Received by:	Laboratory Representative: <i>[Signature]</i>	Date: 5/15/19	Time: 4:15

11RA