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INDOOR AIR QUALITY EVALUATION MOLD ANALYSIS REPORT

**Indiana Avenue School #18
Routine Monthly Sampling
October 2019**

256 Indiana Avenue | Iselin, NJ 08830

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

Survey date:
Inspection performed by:

October 21, 2019
Michael Sorgenti

AHERA Consultants Inc. has been 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 District for routine sampling throughout the school year. This month, eleven (11) rooms were selected for testing as well as collection of an outside control sample for comparative analysis.

Based on our observations and the sampling plan discussed with the School District, it was determined that we would conduct ambient Air-o-Cell air sampling and assess the current air quality conditions with respect to temperature, humidity, carbon dioxide (CO²) carbon monoxide (CO) utilizing a IAQ Q-Trac module within the spaces and collect a sample outside the building as a control sample.

Existing Conditions

On Monday, October 21, 2019, Michael Sorgenti, Project Manager from AHERA Consultants, Inc. arrived at the Indiana Avenue School and signed into the main office. Principal Chiera then escorted Mr. Sorgenti during his initial screening assessment of student and staff occupied areas. The 11 rooms tested this month were designated by Dr. Zega and Principal Chiera.

No obvious, visible areas of concern were identified i.e.: suspect mold, active water spots or wet conditions during this screening assessment, so Q-Trac meter evaluations of CO, CO², Humidity and Temperature, of the 11 rooms, while the areas were under normal student loads was conducted.

Following is a narrative of the conditions noted, Monday October 21, 2019:

Room 1: 20 students, 1 teacher. Windows and doors open. 2x2 drop ceiling tiles, 12 x 12 floor tile, plaster and sheetrock walls. Unit ventilator off, AC window unit off. No visible signs of mold.

Classroom 4: 19 students, 1 teacher. Windows closed. Block walls, 2x2 drop ceiling tiles, 12x12 floor tiles. Unit ventilator on, AC window unit off. Dehumidifier off. No visible signs of mold. No visible stains.

Classroom 10: 20 students, 1 teacher. Windows closed. 2x2 drop ceiling tiles, 12x12 floor tile, plaster walls. Unit ventilator on, AC window unit off. No visible signs of mold.

Classroom 13: 19 students, 1 teacher. Windows open. Plaster and sheetrock walls. Unit ventilator on, AC window unit off. 2x2 drop ceiling tiles and 9x9 floor tiles. No visible signs of mold.

Room 16: Nurses Room – Un-occupied at time of testing. Windows closed. Plaster walls, 2x2 drop ceiling tiles, 9 x 9 floor tiles. AC window unit off. No visible signs of mold. No visible stains.

Classroom 17: 19 students, 1 teacher. Windows open. Block walls, 2x4 drop ceiling tiles. Unit ventilator off, AC window unit off. No visible signs of mold. One stain on ceiling tile (appears old).

Classroom 18: 16 students, 3 teachers. Windows closed. Block walls, 2x4 drop ceiling tiles. Unit ventilator on, AC window unit off. Dehumidifier on. No visible signs of mold. No visible stains.

Classroom 23: 19 students, 1 teacher. Windows closed. Block walls, 2x4 drop ceiling tiles. Unit ventilator on, AC window unit off. Dehumidifier on. No visible signs of mold. No visible stains.

Classroom 30: 22 students, 2 teachers. Windows closed. Block walls, 2x4 drop ceiling tiles, 12x12 floor tiles. Unit ventilator on, AC window unit off. Dehumidifier on. No visible signs of mold. No visible stains.

Room 40: Main office – 2 Workers. Windows closed. Plaster walls, 2x2 drop ceiling tiles, Carpet with possible 9 x 9 floor tiles under. Unit ventilator on, AC window unit on. Dehumidifier on. No visible signs of mold. No visible stains.

Outside Control Sample: Collected comparative samples outside.

Section III	Sampling Procedures
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- ◇ 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, CO² 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.

Section IV	Testing Results
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◇ Table 1: Air -O-Cell Sampling Results	October 21, 2019
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ANALYSIS OF FUNGAL SPORES & PARTICULATES BY OPTICAL MICROSCOPY: AIR-O-CELL Cassette

SAMPLE ID #	SAMPLE LOCATION	PARTICLE ID	COUNT/ m ³
01	Room 1	Alternaria	20
		Ascospores	100
		Aspergillus/Penicillium	40
		Basidiospores	6,150
		Chaetomium	20
		Cladosporium	1,100
		Myxomycetes	220
		Pithomyces	40
		Unidentifiable Spores	20
		Bispora	20
		Polythrincium	10
		Total Fungi	7,740
		Hyphal Fragment	20
02	Room 10	Ascospores	20
		Aspergillus/Penicillium	40
		Basidiospores	520
		Cladosporium	20
		Myxomycetes	20
		Rust	20
		Hyphal Fragment	7

SAMPLE ID #	SAMPLE LOCATION	PARTICLE ID	COUNT/ m ³
03	Room 13	Alternaria	7
		Ascospores	100
		Aspergillus/Penicillium	100
		Basidiospores	6,370
		Cladosporium	550
		Myxomycetes	90
		Total Fungi	7,217
04	Room 17	Alternaria	7
		Ascospores	40
		Aspergillus/Penicillium	200
		Basidiospores	9,210
		Cladosporium	550
		Ganoderma	40
		Myxomycetes	40
		Unidentifiable Spores	20
		Total Fungi	10,107
05	Room 18	Basidiospores	1,300
		Cladosporium	200
		Myxomycetes	40
		Total Fungi	1,540
06	Room 23	Aspergillus/Penicillium	40
		Basidiospores	920
		Cladosporium	200
		Myxomycetes	20
		Total Fungi	1,180
07	Room 30	Ascospores	7
		Aspergillus/Penicillium	40
		Basidiospores	280
		Cladosporium	70
		Myxomycetes	20
		Total Fungi	417
08	Room 16 (Nurse)	Ascospores	40
		Basidiospores	5,000
		Cladosporium	810
		Myxomycetes	200
		Pithomyces	10
		Stachybotrys / Memnoniella	20
		Torula-like	7
		Total Fungi	6,087
		Hyphal Fragment	7
09	Room 40 (Main Office)	Ascospores	20
		Aspergillus/Penicillium	240
		Basidiospores	3,560
		Cladosporium	260
		Myxomycetes	40
		Pithomyces	10
		Stachybotrys / Memnoniella	20
		Total Fungi	4,150
10	Room 4	Ascospores	20
		Basidiospores	440
		Cladosporium	40
		Myxomycetes	10
		Total Fungi	510
11	Outdoors	Alternaria	40
		Aspergillus / Penicillium	220
		Basidiospores	2,730
		Cladosporium	28,800
		Curvularia	220
		Myxomycetes	28,800
		Pithomyces	90
		Rust	20
		Tetraploa	7
		Total Fungi	60,927
Hyphal Fragment	40		

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

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 (CO²) not exceeding 1000 ppm. If Carbon Dioxide (CO²) 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.

Findings:

The results of the ambient air sample sampling from the areas tested during this round found spore counts to be in line with the outside control sample. Utilization of windows and doors within the rooms has decreased the CO₂ levels as compared to previous sampling conducted in September.

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.

Consult HVAC contractor to find out steps to increase air exchanges utilizing existing UV system as well as increasing fresh air exchanges.

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

IAQ Investigation Log	
Test ID:	School #18 Room 1
Model Number:	7545
Serial Number:	T75451321002
Test ID:	1
Test Abbreviation:	Test 004
Start Date:	10/21/19
Start Time:	13:29:36
Duration (dd:hh:mm:ss):	0:00:01:07
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 004



Statistics	Channel:	CO ² - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	658	70.1	44.4	0.3
	Minimum:	612	69.8	44.3	0.2
	Time of Minimum:	13:30:43	13:30:43	13:30:17	13:30:31
	Date of Minimum:	10/21/19	10/21/19	10/21/19	10/21/19
	Maximum:	747	70.5	44.7	0.3
	Time of Maximum:	13:29:41	13:29:41	13:30:31	13:29:41
	Date of Maximum:	10/21/19	10/21/19	10/21/19	10/21/19

Calibration	Meter:	6/3/19			
Calibration	Sensor:	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	6/3/19	6/3/19	6/3/19	6/3/19

Date	Time	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
10/21/19	13:29:41	747	70.5	44.4	0.3
10/21/19	13:29:55	673	70.3	44.4	0.3
10/21/19	13:30:17	615	70	44.3	0.3
10/21/19	13:30:31	645	69.9	44.7	0.2
10/21/19	13:30:43	612	69.8	44.4	0.2

IAQ Investigation Log	
Test ID:	School #18 Room 10
Model Number:	7545
Serial Number:	T75451321002
Test ID:	2
Test Abbreviation:	Test 005
Start Date:	10/21/19
Start Time:	13:33:10
Duration (dd:hh:mm:ss):	0:00:01:00
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 005



Statistics	Channel:	CO ² - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	572	71.6	45	0.1
	Minimum:	525	71.1	44.5	0
	Time of Minimum:	13:33:15	13:33:15	13:33:30	13:33:15
	Date of Minimum:	10/21/19	10/21/19	10/21/19	10/21/19
	Maximum:	620	72	45.4	0.1
	Time of Maximum:	13:33:45	13:34:10	13:33:45	13:34:10
	Date of Maximum:	10/21/19	10/21/19	10/21/19	10/21/19

Calibration	Meter:	6/3/19			
Calibration	Sensor:	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	6/3/19	6/3/19	6/3/19	6/3/19

Date	Time	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
10/21/19	13:33:15	525	71.1	45.2	0
10/21/19	13:33:30	534	71.4	44.5	0
10/21/19	13:33:45	620	71.7	45.4	0
10/21/19	13:33:58	590	71.8	45	0.1
10/21/19	13:34:10	592	72	44.8	0.1

IAQ Investigation Log	
Test ID:	School #18 Room 13
Model Number:	7545
Serial Number:	T75451321002
Test ID:	3
Test Abbreviation:	Test 006
Start Date:	10/21/19
Start Time:	13:37:44
Duration (dd:hh:mm:ss):	0:00:01:12
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 006



Statistics	Channel:	CO ² - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	626	74.8	40.7	0.3
	Minimum:	612	74.2	40.5	0.2
	Time of Minimum:	13:38:42	13:37:49	13:38:07	13:38:26
	Date of Minimum:	10/21/19	10/21/19	10/21/19	10/21/19
	Maximum:	651	75.1	41	0.4
	Time of Maximum:	13:37:49	13:38:56	13:37:49	13:38:56
	Date of Maximum:	10/21/19	10/21/19	10/21/19	10/21/19

Calibration	Meter:	6/3/19			
Calibration	Sensor:	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	6/3/19	6/3/19	6/3/19	6/3/19

Date	Time	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
10/21/19	13:37:49	651	74.2	41	0.3
10/21/19	13:38:07	617	74.6	40.5	0.3
10/21/19	13:38:26	626	74.9	40.9	0.2
10/21/19	13:38:42	612	75	40.6	0.2
10/21/19	13:38:56	621	75.1	40.6	0.4

IAQ Investigation Log	
Test ID:	School #18 Room 17
Model Number:	7545
Serial Number:	T75451321002
Test ID:	4
Test Abbreviation:	Test 007
Start Date:	10/21/19
Start Time:	13:43:09
Duration (dd:hh:mm:ss):	0:00:01:04
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 007



Statistics	Channel:	CO ² - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	619	71	40.3	0.2
	Minimum:	613	70.9	39.8	0.1
	Time of Minimum:	13:43:14	13:44:00	13:43:14	13:43:29
	Date of Minimum:	10/21/19	10/21/19	10/21/19	10/21/19
	Maximum:	629	71.1	40.8	0.3
	Time of Maximum:	13:43:45	13:43:14	13:44:13	13:44:13
	Date of Maximum:	10/21/19	10/21/19	10/21/19	10/21/19

Calibration	Meter:	6/3/19			
Calibration	Sensor:	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	6/3/19	6/3/19	6/3/19	6/3/19

Date	Time	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
10/21/19	13:43:14	613	71.1	39.8	0.1
10/21/19	13:43:29	613	71.1	40	0.1
10/21/19	13:43:45	629	71.1	40.4	0.2
10/21/19	13:44:00	615	70.9	40.3	0.2
10/21/19	13:44:13	624	71	40.8	0.3

IAQ Investigation Log	
Test ID:	School #18 Room 18
Model Number:	7545
Serial Number:	T75451321002
Test ID:	5
Test Abbreviation:	Test 008
Start Date:	10/21/19
Start Time:	13:46:08
Duration (dd:hh:mm:ss):	0:00:01:12
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 008



Statistics	Channel:	CO ² - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	694	71.7	40.1	0.1
	Minimum:	662	70.8	39	0
	Time of Minimum:	13:46:47	13:47:20	13:47:20	13:46:13
	Date of Minimum:	10/21/19	10/21/19	10/21/19	10/21/19
	Maximum:	749	71.9	41.2	0.2
	Time of Maximum:	13:46:30	13:46:30	13:46:30	13:46:30
	Date of Maximum:	10/21/19	10/21/19	10/21/19	10/21/19

Calibration	Meter:	6/3/19			
Calibration	Sensor:	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	6/3/19	6/3/19	6/3/19	6/3/19

Date	Time	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
10/21/19	13:46:13	687	71.9	40.3	0
10/21/19	13:46:30	749	71.9	41.2	0.2
10/21/19	13:46:47	662	71.8	39.8	0
10/21/19	13:47:02	698	71.8	40.1	0.2
10/21/19	13:47:20	673	70.8	39	0.2

IAQ Investigation Log	
Test ID:	School #18 Room 23
Model Number:	7545
Serial Number:	T75451321002
Test ID:	6
Test Abbreviation:	Test 009
Start Date:	10/21/19
Start Time:	13:49:43
Duration (dd:hh:mm:ss):	0:00:01:15
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 009



Statistics	Channel:	CO ² - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	688	73.3	40.8	0.1
	Minimum:	608	72.5	40.2	0
	Time of Minimum:	13:50:25	13:49:48	13:50:58	13:50:58
	Date of Minimum:	10/21/19	10/21/19	10/21/19	10/21/19
	Maximum:	813	73.7	42.2	0.1
	Time of Maximum:	13:49:48	13:50:58	13:49:48	13:50:07
	Date of Maximum:	10/21/19	10/21/19	10/21/19	10/21/19

Calibration	Meter:	6/3/19			
Calibration	Sensor:	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	6/3/19	6/3/19	6/3/19	6/3/19

Date	Time	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
10/21/19	13:49:48	813	72.5	42.2	0
10/21/19	13:50:07	624	73.4	40.6	0.1
10/21/19	13:50:25	608	73.2	40.5	0
10/21/19	13:50:44	689	73.7	40.5	0.1
10/21/19	13:50:58	704	73.7	40.2	0

IAQ Investigation Log	
Test ID:	School #18 Room 30
Model Number:	7545
Serial Number:	T75451321002
Test ID:	7
Test Abbreviation:	Test 010
Start Date:	10/21/19
Start Time:	13:53:33
Duration (dd:hh:mm:ss):	0:00:01:12
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 010



Statistics	Channel:	CO ² - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	484	73.4	38.4	0.1
	Minimum:	468	73.2	38	0.1
	Time of Minimum:	13:54:45	13:54:45	13:54:45	13:53:53
	Date of Minimum:	10/21/19	10/21/19	10/21/19	10/21/19
	Maximum:	508	73.8	39.1	0.2
	Time of Maximum:	13:53:38	13:53:53	13:53:53	13:54:45
	Date of Maximum:	10/21/19	10/21/19	10/21/19	10/21/19

Calibration	Meter:	6/3/19			
Calibration	Sensor:	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	6/3/19	6/3/19	6/3/19	6/3/19

Date	Time	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
10/21/19	13:53:38	508	73.5	38.6	0.1
10/21/19	13:53:53	503	73.8	39.1	0.1
10/21/19	13:54:18	468	73.4	38.2	0.1
10/21/19	13:54:33	473	73.3	38.1	0.1
10/21/19	13:54:45	468	73.2	38	0.2

IAQ Investigation Log	
Test ID:	School #18 Room 16 (Nurse)
Model Number:	7545
Serial Number:	T75451321002
Test ID:	8
Test Abbreviation:	Test 011
Start Date:	10/21/19
Start Time:	13:57:05
Duration (dd:hh:mm:ss):	0:00:01:05
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 011



Statistics	Channel:	CO ² - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	511	72.9	41.3	0.2
	Minimum:	487	72.6	41	0.1
	Time of Minimum:	13:57:48	13:57:10	13:58:10	13:58:10
	Date of Minimum:	10/21/19	10/21/19	10/21/19	10/21/19
	Maximum:	550	73.1	41.7	0.3
	Time of Maximum:	13:57:22	13:58:10	13:57:22	13:57:35
	Date of Maximum:	10/21/19	10/21/19	10/21/19	10/21/19

Calibration	Meter:	6/3/19			
Calibration	Sensor:	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	6/3/19	6/3/19	6/3/19	6/3/19

Date	Time	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
10/21/19	13:57:10	519	72.6	41.5	0.2
10/21/19	13:57:22	550	72.8	41.7	0.1
10/21/19	13:57:35	493	72.9	41.1	0.3
10/21/19	13:57:48	487	72.9	41.2	0.2
10/21/19	13:58:10	504	73.1	41	0.1

IAQ Investigation Log	
Test ID:	School #18 Room 40 (Main Office)
Model Number:	7545
Serial Number:	T75451321002
Test ID:	9
Test Abbreviation:	Test 012
Start Date:	10/21/19
Start Time:	14:01:14
Duration (dd:hh:mm:ss):	0:00:01:03
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 012



Statistics	Channel:	CO ² - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	776	71.9	46.8	0.1
	Minimum:	748	71.9	45.8	0
	Time of Minimum:	14:01:29	14:02:03	14:01:29	14:01:19
	Date of Minimum:	10/21/19	10/21/19	10/21/19	10/21/19
	Maximum:	792	72	47.7	0.2
	Time of Maximum:	14:02:17	14:01:19	14:02:03	14:02:17
	Date of Maximum:	10/21/19	10/21/19	10/21/19	10/21/19

Calibration	Meter:	6/3/19			
Calibration	Sensor:	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	6/3/19	6/3/19	6/3/19	6/3/19

Date	Time	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
10/21/19	14:01:19	777	72	46.3	0
10/21/19	14:01:29	748	71.9	45.8	0.1
10/21/19	14:01:50	775	71.9	47.3	0.1
10/21/19	14:02:03	789	71.9	47.7	0.1
10/21/19	14:02:17	792	71.9	47.1	0.2

IAQ Investigation Log	
Test ID:	School #18 Room 4
Model Number:	7545
Serial Number:	T75451321002
Test ID:	10
Test Abbreviation:	Test 013
Start Date:	10/21/19
Start Time:	14:09:54
Duration (dd:hh:mm:ss):	0:00:01:17
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 013



Statistics	Channel:	CO ² - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	535	70	43.5	0
	Minimum:	514	70	42.9	0
	Time of Minimum:	14:10:37	14:10:37	14:10:13	14:09:59
	Date of Minimum:	10/21/19	10/21/19	10/21/19	10/21/19
	Maximum:	563	70.1	44	0
	Time of Maximum:	14:11:11	14:09:59	14:11:11	14:09:59
	Date of Maximum:	10/21/19	10/21/19	10/21/19	10/21/19

Calibration	Meter:	6/3/19			
Calibration	Sensor:	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	6/3/19	6/3/19	6/3/19	6/3/19

Date	Time	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
10/21/19	14:09:59	524	70.1	43	0
10/21/19	14:10:13	536	70.1	42.9	0
10/21/19	14:10:37	514	70	43.6	0
10/21/19	14:10:53	541	70.1	43.8	0
10/21/19	14:11:11	563	70	44	0

IAQ Investigation Log	
Test ID:	School #18 Outside Control Sample
Model Number:	7545
Serial Number:	T75451321002
Test ID:	11
Test Abbreviation:	Test 014
Start Date:	10/21/19
Start Time:	14:13:34
Duration (dd:hh:mm:ss):	0:00:01:02
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 014



Statistics	Channel:	CO ² - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	420	67.8	41.2	0.1
	Minimum:	411	67.1	39.3	0
	Time of Minimum:	14:14:36	14:14:36	14:14:36	14:14:08
	Date of Minimum:	10/21/19	10/21/19	10/21/19	10/21/19
	Maximum:	432	68.5	43.1	0.1
	Time of Maximum:	14:13:52	14:14:08	14:14:08	14:13:39
	Date of Maximum:	10/21/19	10/21/19	10/21/19	10/21/19

Calibration	Meter:	6/3/19			
Calibration	Sensor:	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	6/3/19	6/3/19	6/3/19	6/3/19

Date	Time	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
10/21/19	14:13:39	427	67.2	40.8	0.1
10/21/19	14:13:52	432	67.8	42.5	0.1
10/21/19	14:14:08	415	68.5	43.1	0
10/21/19	14:14:22	415	68.5	40.3	0
10/21/19	14:14:36	411	67.1	39.3	0



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Customer PO:
Project ID: Woodbridge School #18

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Collected: 10/21/2019
Received: 10/21/2019
Analyzed: 10/23/2019

Project: 19-4314/Indiana Ave School #18-Woodbridge, NJ (Woodbridge School #18)

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

Lab Sample Number: Client Sample ID: Volume (L): Sample Location	051905762-0001 102119-01 150 Room 1			051905762-0002 102119-02 150 Room 10			051905762-0003 102119-03 150 Room 13		
	Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³
Alternaria (Ulocladium)	1	20	0.3	-	-	-	1*	7*	0.1
Ascospores	6	100	1.3	1	20	3.1	5	100	1.4
Aspergillus/Penicillium	2	40	0.5	2	40	6.3	5	100	1.4
Basidiospores	282	6150	79.5	24	520	81.3	292	6370	88.3
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	1	20	0.3	-	-	-	-	-	-
Cladosporium	50	1100	14.2	1	20	3.1	25	550	7.6
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	10	220	2.8	1	20	3.1	4	90	1.2
Pithomyces++	2	40	0.5	-	-	-	-	-	-
Rust	-	-	-	1	20	3.1	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	1	20	0.3	-	-	-	-	-	-
Bispora	1	20	0.3	-	-	-	-	-	-
Polythrincium	2*	10*	0.1	-	-	-	-	-	-
Tetraploa	-	-	-	-	-	-	-	-	-
Torula-like	-	-	-	-	-	-	-	-	-
Total Fungi	358	7740	100	30	640	100	332	7217	100
Hyphal Fragment	1	20	-	1*	7*	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	22	-	-	22	-	-	22	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	1	-	-	2	-

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

Chaiyut Sae Lao, 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. Piscataway, NJ AIHA-LAP, LLC--EMLAP Accredited #167035

Initial report from: 10/24/2019 08:27:56

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Received: 10/21/2019
Analyzed: 10/23/2019

Project: 19-4314/Indiana Ave School #18-Woodbridge, NJ (Woodbridge School #18)

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

Lab Sample Number: Client Sample ID: Volume (L): Sample Location	051905762-0004 102119-04 150 Room 17			051905762-0005 102119-05 150 Room 18			051905762-0006 102119-06 150 Room 23			
	Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total
Alternaria (Ulocladium)	1*	7*	0.1	-	-	-	-	-	-	-
Ascospores	2	40	0.4	-	-	-	-	-	-	-
Aspergillus/Penicillium	8	200	2	-	-	-	2	40	3.4	-
Basidiospores	422	9210	91.1	60	1300	84.4	42	920	78	-
Bipolaris++	-	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-	-
Cladosporium	25	550	5.4	7	200	13	7	200	16.9	-
Curvularia	-	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-	-
Ganoderma	2	40	0.4	-	-	-	-	-	-	-
Myxomycetes++	2	40	0.4	6*	40*	2.6	1	20	1.7	-
Pithomyces++	-	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	1	20	0.2	-	-	-	-	-	-	-
Bispora	-	-	-	-	-	-	-	-	-	-
Polythrincium	-	-	-	-	-	-	-	-	-	-
Tetraploa	-	-	-	-	-	-	-	-	-	-
Torula-like	-	-	-	-	-	-	-	-	-	-
Total Fungi	463	10107	100	73	1540	100	52	1180	100	
Hyphal Fragment	-	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	22	-	-	22	-	-	22	-	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-	-
Background (1-5)	-	2	-	-	1	-	-	1	-	-

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

Chaiyut Sae Lao, Laboratory Manager
or other approved signatory

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

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Analyzed: 10/23/2019

Project: 19-4314/Indiana Ave School #18-Woodbridge, NJ (Woodbridge School #18)

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

Lab Sample Number: Client Sample ID: Volume (L): Sample Location	051905762-0007 102119-07 150 Room 30			051905762-0008 102119-08 150 Room 16 (Nurse)			051905762-0009 102119-09 150 Room 40 (Main Office)			
	Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-	-
Ascospores	1*	7*	1.7	2	40	0.7	1	20	0.5	
Aspergillus/Penicillium	2	40	9.6	-	-	-	11	240	5.8	
Basidiospores	13	280	67.1	229	5000	82.1	163	3560	85.8	
Bipolaris++	-	-	-	-	-	-	-	-	-	
Chaetomium	-	-	-	-	-	-	-	-	-	
Cladosporium	3	70	16.8	37	810	13.3	12	260	6.3	
Curvularia	-	-	-	-	-	-	-	-	-	
Epicoccum	-	-	-	-	-	-	-	-	-	
Fusarium	-	-	-	-	-	-	-	-	-	
Ganoderma	-	-	-	-	-	-	-	-	-	
Myxomycetes++	1	20	4.8	9	200	3.3	2	40	1	
Pithomyces++	-	-	-	2*	10*	0.2	2*	10*	0.2	
Rust	-	-	-	-	-	-	-	-	-	
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-	
Stachybotrys/Memnoniella	-	-	-	1	20	0.3	3*	20*	0.5	
Unidentifiable Spores	-	-	-	-	-	-	-	-	-	
Bispora	-	-	-	-	-	-	-	-	-	
Polythrincium	-	-	-	-	-	-	-	-	-	
Tetraploa	-	-	-	-	-	-	-	-	-	
Torula-like	-	-	-	1*	7*	0.1	-	-	-	
Total Fungi	20	417	100	281	6087	100	194	4150	100	
Hyphal Fragment	-	-	-	1*	7*	-	-	-	-	
Insect Fragment	-	-	-	-	-	-	-	-	-	
Pollen	-	-	-	-	-	-	-	-	-	
Analyt. Sensitivity 600x	-	22	-	-	22	-	-	22	-	
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-	
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-	
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-	
Background (1-5)	-	1	-	-	2	-	-	2	-	

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

Chaiyut Sae Lao, Laboratory Manager
or other approved signatory

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

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Project: 19-4314/Indiana Ave School #18-Woodbridge, NJ (Woodbridge School #18)

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

Lab Sample Number: Client Sample ID: Volume (L): Sample Location	051905762-0010 102119-10 150 Room 4			051905762-0011 102119-11 150 Outside					
	Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total		
Alternaria (Ulocladium)	-	-	-	2	40	0.1	-	-	-
Ascospores	3*	20*	3.9	-	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	10	220	0.4	-	-	-
Basidiospores	20	440	86.3	125	2730	4.5	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	2	40	7.8	1320	28800	47.3	-	-	-
Curvularia	-	-	-	10	220	0.4	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	2*	10*	2	1320	28800	47.3	-	-	-
Pithomyces++	-	-	-	4	90	0.1	-	-	-
Rust	-	-	-	3*	20*	0	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Bispora	-	-	-	-	-	-	-	-	-
Polythrincium	-	-	-	-	-	-	-	-	-
Tetraploa	-	-	-	1*	7*	0	-	-	-
Torula-like	-	-	-	-	-	-	-	-	-
Total Fungi	27	510	100	2795	60927	100			
Hyphal Fragment	-	-	-	2	40	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	22	-	-	22	-	-	-	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	-	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	-	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	-	-
Background (1-5)	-	1	-	-	1	-	-	-	-

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

Chaiyut Sae Lao, Laboratory Manager
or other approved signatory

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MICROBIOLOGY – CHAIN OF CUSTODY

Date Collected: 10/21/2019 Date Submitted: 10/21/2019

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Job Number: 19-4314	E-mail: <u>ahera@comcast.net</u>

Project Name: Indiana Ave School #18 - Woodbridge, NJ

<p>Air Samples</p> <p><input checked="" type="checkbox"/> Mold & Fungi by Air-O-Cell Cassette (Select turn around time)</p> <p><input type="checkbox"/> Mold & Fungi by Agar Plate (Count & identification)</p> <p><input type="checkbox"/> Mold & Fungi by Agar Plate (Count only)</p> <p><input type="checkbox"/> Bacterial Count & Gram Stain</p> <p><input type="checkbox"/> Bacterial Count & Identification (Three most prominent types)</p> <p>Water Samples</p> <p><input type="checkbox"/> Total Count, Coliforms, Fecal Coliforms (Specify) _____</p> <p><input type="checkbox"/> Other (Specify) _____</p>	<p>Wipe & Bulk Samples</p> <p><input type="checkbox"/> Mold & Fungi – Direct Examination (Select turn around time) Submit cellophane tape sample or bulk</p> <p><input type="checkbox"/> Mold & Fungi – Direct Examination- Follow up examination by culture if necessary</p> <p><input type="checkbox"/> Mold & Fungi – Culture (ID & Count)</p> <p><input type="checkbox"/> Mold & Fungi – Culture (Count only)</p> <p><input type="checkbox"/> Bacterial Count & Gram Stain</p> <p><input type="checkbox"/> Bacterial Count & Identification (Three most prominent types)</p>
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RECEIVED
 OCT 21 2019
 BY: 6:30pm WJ
 EMS/RES/CA/NAV

TURN AROUND TIME:
 SAME DAY 1 DAY 2 DAY 3 DAY 4 DAY 5 DAY 6-10 DAY

SAMPLE ID	LOCATION	VOLUME	COMMENTS
102119-01 102119-01	Room 1	150L	Q-004
102119-02	Room 10	150L	Q-005
102119-03	Room 13	150L	Q-006
102119-04	Room 17	150L	Q-007
102119-05	Room 18	150L	Q-008
102119-06	Room 23	150L	Q-009
102119-07	Room 30	150L	Q-010
102119-08	Room 16 (Nurse)	150L	Q-011
102119-09	Room 40 (Plain Office)	150L	Q-012
102119-10	Room 4	150L	Q-013
102119-11	Outside	150L	Q-014
Relinquished by:	Technician Signature: <u>[Signature]</u>	Date: <u>10/21/2019</u>	Time:
Received by:	Laboratory Representative:	Date:	Time: