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INDOOR AIR QUALITY EVALUATION MOLD ANALYSIS REPORT

Indiana Avenue School #18 – Routine Monthly Sampling

256 Indiana Avenue | Iselin, NJ 08830

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

Survey date:

June 14, 2019

Inspection performed by:

Michael Sorgenti

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 June 14, 2019, I Michael Sorgenti, Project 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. It was field day at the school so most classrooms were empty.

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

Classroom 9: 2x2 drop ceiling tiles, 9x9 floor tile, plaster walls. Unit ventilator is off, AC window unit is off. No visible signs of mold. No occupants in room.

Classroom 11: 1x1 spline ceiling, 9x9 floor tiles, plaster walls. Unit ventilator is off, AC window unit is off. No visible signs of mold. No occupants in room.

Classroom 12: 1x1 spline ceiling, 9x9 floor tiles, plaster walls. Unit ventilator is off, AC window unit is off. No visible signs of mold. No occupants in room.

Classroom 13: 1x1 spline ceiling, 9x9 floor tiles, plaster walls. Unit ventilator is off, AC window unit is off. No visible signs of mold. No occupants in room.

Classroom 14: 1x1 spline ceiling, 9x9 floor tiles, plaster walls. Unit ventilator is off, AC window unit is off. No visible signs of mold. No occupants in room.

Classroom 17: 2x4 drop ceiling tiles, 12x12 floor tiles, block walls. Unit ventilator is off, AC window unit is off. No visible signs of mold. No occupants in room.

Classroom 18: 2x4 drop ceiling tiles, 12x12 floor tiles, block walls. Unit ventilator is off, AC window unit is off. Dehumidifier is off. No visible signs of mold. No occupants in room.

Classroom 19: 2x4 drop ceiling tiles, 12x12 floor tiles, block walls. Unit ventilator is off, AC window unit is off. Dehumidifier is off. No visible signs of mold. No occupants in room.

Classroom 20: 2x4 drop ceiling tiles, 12x12 floor tiles, block walls. Unit ventilator is off, AC window unit is off. Dehumidifier is off. No visible signs of mold. No occupants in room.

Classroom 22: 2x4 drop ceiling tiles, 12x12 floor tiles, block walls. Unit ventilator is off, AC window unit is off. Dehumidifier is off. No visible signs of mold. Occupants in room.

Outside Control Sample: Collected comparative samples outside adjacent Main Entrance. Temperature in the 70's, sunny and breezy.

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 (CO²) 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, 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

◇ **Table 1: Air -O-Cell Sampling Results**

June 14, 2019

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

SAMPLE ID #	SAMPLE LOCATION	PARTICLE ID	COUNT/ m ³
3262-61419-01	Classroom 9	Ascospores	2870
		Basidiospores	3140
		Cladosporium	100
		Total Fungi	6110
		Pollen	20
3262-61419-02	Classroom 11	Ascospores	3730
		Aspergillus/Penicillium	40
		Basidiospores	4960
		Cladosporium	570
		Total Fungi	9300

SAMPLE ID #	SAMPLE LOCATION	PARTICLE ID	COUNT/ m3
3262-61419-03	Classroom 12	Ascospores	100
		Aspergillus/Penicillium	60
		Basidiospores	200
		Cladosporium	60
		Total Fungi	420
3262-61419-04	Classroom 13	Ascospores	4370
		Basidiospores	3750
		Cladosporium	600
		Ganoderma	20
		Total Fungi	8760
3262-61419-05	Classroom 14	Ascospores	270
		Basidiospores	350
		Curvularia	20
		Myxomycetes	40
		Total Fungi	680
		Pollen	20
3262-61419-06	Classroom 17	Altemaria (Ulocladium)	20
		Ascospores	370
		Aspergillus/Penicillium	230
		Basidiospores	270
		Cladosporium	230
		Curvularia	20
		Epicoccum	20
		Myxomycetes	20
		Triadelphia	20
		Total Fungi	1200
		Insect Fragments	20
		Pollen	20
3262-61419-07	Classroom 18	Ascospores	450
		Aspergillus/Penicillium	490
		Basidiospores	680
		Cladosporium	100
		Oidiodendron	40
		Total Fungi	1760
3262-61419-08	Classroom 19	Ascospores	100
		Aspergillus/Penicillium	210
		Basidiospores	370
		Chaetomium	20
		Cladosporium	80
		Total Fungi	780
			7
3262-61419-09	Classroom 20	Ascospores	270
		Aspergillus/Penicillium	290
		Basidiospores	250
		Cladosporium	100
		Oidiodendron	20
		Total Fungi	930
3262-61419-010	Classroom 22	Ascospores	490
		Aspergillus/Penicillium	310
		Basidiospores	210
		Cladosporium	100
		Total Fungi	1110
		Pollen	7
3262-61419-011	Outside Control	Alternaria (Ulocladium)	200
		Ascospores	1600
		Aspergillus/Penicillium	270
		Basidiospores	7080
		Cladosporium	18700
		Epicoccum	20
		Ganoderma	80
		Myxomycetes++	60
		Rust	7
		Botrytis	20
		Polythrincium	20
		Total Fungi	28057

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 (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.

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. CO² 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 (5 Pages)

IAQ Investigation Log		
Test ID:	School #18	Classroom # 9
Model Number:	7545	
Serial Number:	T75450953002	
Test ID:	1	
Test Abbreviation:	Test 001	
Start Date:	6/14/2019	
Start Time:	10:03:40	
Duration (dd:hh:mm:ss):	0:00:00:57	
Log Interval (mm:ss):	0:05	
Number of points:	5	
Notes:	Test 001	



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	478	72.5	52.1	0.8
	Minimum:	474	72.5	51.9	0.5
	Time of Minimum:	10:03:58	10:04:26	10:03:45	10:04:13
	Date of Minimum:	6/14/2019	6/14/2019	6/14/2019	6/14/2019
	Maximum:	484	72.5	52.2	0.9
	Time of Maximum:	10:04:26	10:03:45	10:04:26	10:03:45
	Date of Maximum:	6/14/2019	6/14/2019	6/14/2019	6/14/2019

Calibration	Meter:	1/31/2019			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	1/31/2019	1/31/2019	1/31/2019	1/31/2019

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
6/14/2019	10:03:45	476	72.5	51.9	0.9
6/14/2019	10:03:58	474	72.5	51.9	0.9
6/14/2019	10:04:13	482	72.5	52.1	0.5
6/14/2019	10:04:26	484	72.5	52.2	0.8
6/14/2019	10:04:37	474	72.5	52.1	0.8

IAQ Investigation Log	
Test ID:	School #18 Classroom # 11
Model Number:	7545
Serial Number:	T75450953002
Test ID:	2
Test Abbreviation:	Test 002
Start Date:	6/14/2019
Start Time:	10:15:58
Duration (dd:hh:mm:ss):	0:00:01:00
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 002



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	465	72.7	51.9	0.7
	Minimum:	458	72.6	51.6	0.6
	Time of Minimum:	10:16:15	10:16:15	10:16:03	10:16:58
	Date of Minimum:	6/14/2019	6/14/2019	6/14/2019	6/14/2019
	Maximum:	470	72.7	52.2	0.8
	Time of Maximum:	10:16:03	10:16:03	10:16:58	10:16:03
	Date of Maximum:	6/14/2019	6/14/2019	6/14/2019	6/14/2019

Calibration	Meter:	1/31/2019			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	1/31/2019	1/31/2019	1/31/2019	1/31/2019

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
6/14/2019	10:16:03	470	72.7	51.6	0.8
6/14/2019	10:16:15	458	72.6	51.8	0.6
6/14/2019	10:16:32	464	72.7	52	0.6
6/14/2019	10:16:46	468	72.7	51.9	0.7
6/14/2019	10:16:58	466	72.7	52.2	0.6

IAQ Investigation Log	
Test ID:	School #18 Classroom # 12
Model Number:	7545
Serial Number:	T75450953002
Test ID:	3
Test Abbreviation:	Test 003
Start Date:	6/14/2019
Start Time:	10:28:38
Duration (dd:hh:mm:ss):	0:00:00:59
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 003



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	417	71.9	51.2	0.5
	Minimum:	408	71.7	50.9	0.4
	Time of Minimum:	10:29:12	10:29:37	10:28:43	10:28:43
	Date of Minimum:	6/14/2019	6/14/2019	6/14/2019	6/14/2019
	Maximum:	429	72.2	51.5	0.7
	Time of Maximum:	10:28:43	10:28:43	10:29:37	10:29:12
	Date of Maximum:	6/14/2019	6/14/2019	6/14/2019	6/14/2019

Calibration	Meter:	1/31/2019			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	1/31/2019	1/31/2019	1/31/2019	1/31/2019

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
6/14/2019	10:28:43	429	72.2	50.9	0.4
6/14/2019	10:28:55	418	72	51.1	0.4
6/14/2019	10:29:12	408	71.7	51	0.7
6/14/2019	10:29:25	416	71.8	51.4	0.4
6/14/2019	10:29:37	412	71.7	51.5	0.5

IAQ Investigation Log	
Test ID:	School #18 Classroom # 13
Model Number:	7545
Serial Number:	T75450953002
Test ID:	4
Test Abbreviation:	Test 004
Start Date:	6/14/2019
Start Time:	10:43:59
Duration (dd:hh:mm:ss):	0:00:00:59
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 004



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	438	72.1	50.9	0.4
	Minimum:	424	72	50.7	0.4
	Time of Minimum:	10:44:47	10:44:58	10:44:33	10:44:04
	Date of Minimum:	6/14/2019	6/14/2019	6/14/2019	6/14/2019
	Maximum:	460	72.3	51.1	0.5
	Time of Maximum:	10:44:04	10:44:04	10:44:47	10:44:47
	Date of Maximum:	6/14/2019	6/14/2019	6/14/2019	6/14/2019

Calibration	Meter:	1/31/2019			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	1/31/2019	1/31/2019	1/31/2019	1/31/2019

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
6/14/2019	10:44:04	460	72.3	50.9	0.4
6/14/2019	10:44:18	453	72.2	50.8	0.4
6/14/2019	10:44:33	428	72	50.7	0.4
6/14/2019	10:44:47	424	72	51.1	0.5
6/14/2019	10:44:58	426	72	50.9	0.4

IAQ Investigation Log		
Test ID:	School #18	Classroom # 14
Model Number:	7545	
Serial Number:	T75450953002	
Test ID:	5	
Test Abbreviation:	Test 005	
Start Date:	6/14/2019	
Start Time:	10:55:56	
Duration (dd:hh:mm:ss):	0:00:01:02	
Log Interval (mm:ss):	0:05	
Number of points:	5	
Notes:	Test 005	



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	431	73.2	51.3	0.4
	Minimum:	423	73.1	51.1	0.3
	Time of Minimum:	10:56:01	10:56:01	10:56:48	10:56:01
	Date of Minimum:	6/14/2019	6/14/2019	6/14/2019	6/14/2019
	Maximum:	438	73.3	51.6	0.5
	Time of Maximum:	10:56:58	10:56:58	10:56:14	10:56:30
	Date of Maximum:	6/14/2019	6/14/2019	6/14/2019	6/14/2019

Calibration	Meter:	1/31/2019			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	1/31/2019	1/31/2019	1/31/2019	1/31/2019

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
6/14/2019	10:56:01	423	73.1	51.6	0.3
6/14/2019	10:56:14	431	73.1	51.6	0.4
6/14/2019	10:56:30	428	73.1	51.2	0.5
6/14/2019	10:56:48	434	73.2	51.1	0.4
6/14/2019	10:56:58	438	73.3	51.1	0.5

IAQ Investigation Log		
Test ID:	School #18	Classroom # 17
Model Number:	7545	
Serial Number:	T75450953002	
Test ID:	6	
Test Abbreviation:	Test 006	
Start Date:	6/14/2019	
Start Time:	11:11:22	
Duration (dd:hh:mm:ss):	0:00:01:09	
Log Interval (mm:ss):	0:05	
Number of points:	5	
Notes:	Test 006	



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	832	71.9	53.8	0.4
	Minimum:	806	71.8	53.4	0.3
	Time of Minimum:	11:12:31	11:11:42	11:12:01	11:12:16
	Date of Minimum:	6/14/2019	6/14/2019	6/14/2019	6/14/2019
	Maximum:	859	72	54.5	0.5
	Time of Maximum:	11:11:27	11:11:27	11:11:27	11:11:27
	Date of Maximum:	6/14/2019	6/14/2019	6/14/2019	6/14/2019

Calibration	Meter:	1/31/2019			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	1/31/2019	1/31/2019	1/31/2019	1/31/2019

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
6/14/2019	11:11:27	859	72	54.5	0.5
6/14/2019	11:11:42	839	71.8	53.4	0.4
6/14/2019	11:12:01	831	71.8	53.4	0.4
6/14/2019	11:12:16	822	71.9	53.7	0.3
6/14/2019	11:12:31	806	72	53.8	0.4

IAQ Investigation Log	
Test ID:	School #18 Classroom # 18
Model Number:	7545
Serial Number:	T75450953002
Test ID:	7
Test Abbreviation:	Test 007
Start Date:	6/14/2019
Start Time:	11:21:40
Duration (dd:hh:mm:ss):	0:00:00:59
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 007



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	568	73.6	52.4	0.4
	Minimum:	562	73.6	52	0.3
	Time of Minimum:	11:21:45	11:21:45	11:21:45	11:22:27
	Date of Minimum:	6/14/2019	6/14/2019	6/14/2019	6/14/2019
	Maximum:	580	73.8	52.9	0.6
	Time of Maximum:	11:22:12	11:22:39	11:22:12	11:22:39
	Date of Maximum:	6/14/2019	6/14/2019	6/14/2019	6/14/2019

Calibration	Meter:	1/31/2019			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	1/31/2019	1/31/2019	1/31/2019	1/31/2019

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
6/14/2019	11:21:45	562	73.6	52	0.4
6/14/2019	11:21:58	565	73.6	52.2	0.4
6/14/2019	11:22:12	580	73.6	52.9	0.3
6/14/2019	11:22:27	566	73.7	52.6	0.3
6/14/2019	11:22:39	566	73.8	52.3	0.6

IAQ Investigation Log	
Test ID:	School #18 Classroom # 19
Model Number:	7545
Serial Number:	T75450953002
Test ID:	8
Test Abbreviation:	Test 008
Start Date:	6/14/2019
Start Time:	11:34:17
Duration (dd:hh:mm:ss):	0:00:01:06
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 008



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	672	71	45.9	0.3
	Minimum:	656	71	45.6	0.2
	Time of Minimum:	11:35:23	11:34:49	11:34:22	11:34:35
	Date of Minimum:	6/14/2019	6/14/2019	6/14/2019	6/14/2019
	Maximum:	694	71.2	46.3	0.4
	Time of Maximum:	11:34:22	11:34:22	11:35:11	11:35:23
	Date of Maximum:	6/14/2019	6/14/2019	6/14/2019	6/14/2019

Calibration	Meter:	1/31/2019			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	1/31/2019	1/31/2019	1/31/2019	1/31/2019

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
6/14/2019	11:34:22	694	71.2	45.6	0.3
6/14/2019	11:34:35	682	71	45.8	0.2
6/14/2019	11:34:49	674	71	46	0.2
6/14/2019	11:35:11	656	71	46.3	0.3
6/14/2019	11:35:23	656	71	45.9	0.4

IAQ Investigation Log	
Test ID:	School #18 Classroom # 20
Model Number:	7545
Serial Number:	T75450953002
Test ID:	9
Test Abbreviation:	Test 009
Start Date:	6/14/2019
Start Time:	11:46:58
Duration (dd:hh:mm:ss):	0:00:01:03
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 009



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	462	72.7	53.6	0.3
	Minimum:	459	72.6	53.5	0.2
	Time of Minimum:	11:47:33	11:48:01	11:47:03	11:47:16
	Date of Minimum:	6/14/2019	6/14/2019	6/14/2019	6/14/2019
	Maximum:	468	72.8	53.6	0.4
	Time of Maximum:	11:47:03	11:47:03	11:47:33	11:47:03
	Date of Maximum:	6/14/2019	6/14/2019	6/14/2019	6/14/2019

Calibration	Meter:	1/0/1900			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	1/31/2019	1/31/2019	1/31/2019	1/31/2019

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
6/14/2019	11:47:03	468	72.8	53.5	0.4
6/14/2019	11:47:16	462	72.7	53.6	0.2
6/14/2019	11:47:33	459	72.7	53.6	0.3
6/14/2019	11:47:48	462	72.6	53.6	0.2
6/14/2019	11:48:01	460	72.6	53.6	0.4

IAQ Investigation Log	
Test ID:	School #18 Classroom # 22
Model Number:	7545
Serial Number:	T75450953002
Test ID:	10
Test Abbreviation:	Test 010
Start Date:	6/14/2019
Start Time:	11:57:59
Duration (dd:hh:mm:ss):	0:00:01:22
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 010



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	1192	72	49.7	0.5
	Minimum:	1166	71.5	49.2	0.4
	Time of Minimum:	11:58:22	11:59:21	11:59:21	11:58:40
	Date of Minimum:	6/14/2019	6/14/2019	6/14/2019	6/14/2019
	Maximum:	1240	72.3	50.3	0.7
	Time of Maximum:	11:59:00	11:58:40	11:58:40	11:59:00
	Date of Maximum:	6/14/2019	6/14/2019	6/14/2019	6/14/2019

Calibration	Meter:	1/31/2019			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	1/31/2019	1/31/2019	1/31/2019	1/31/2019

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
6/14/2019	11:58:04	1182	72.1	49.3	0.4
6/14/2019	11:58:22	1166	72.1	49.5	0.5
6/14/2019	11:58:40	1181	72.3	50.3	0.4
6/14/2019	11:59:00	1240	72.2	50.1	0.7
6/14/2019	11:59:21	1191	71.5	49.2	0.4

IAQ Investigation Log	
Test ID:	School #18 OUTSIDE CONTROL SAMPLE - MAIN ENTRANCE
Model Number:	7545
Serial Number:	T75450953002
Test ID:	11
Test Abbreviation:	Test 011
Start Date:	6/14/2019
Start Time:	12:08:11
Duration (dd:hh:mm:ss):	0:00:00:57
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 011



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	405	70.9	52.2	0.2
	Minimum:	398	70	50.4	0.2
	Time of Minimum:	12:08:28	12:08:28	12:08:42	12:08:55
	Date of Minimum:	6/14/2019	6/14/2019	6/14/2019	6/14/2019
	Maximum:	414	72	53.8	0.3
	Time of Maximum:	12:08:16	12:09:08	12:08:16	12:08:28
	Date of Maximum:	6/14/2019	6/14/2019	6/14/2019	6/14/2019

Calibration	Meter:	1/31/2019			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	1/31/2019	1/31/2019	1/31/2019	1/31/2019

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
6/14/2019	12:08:16	414	70.4	53.8	0.2
6/14/2019	12:08:28	398	70	52.4	0.3
6/14/2019	12:08:42	405	70.5	50.4	0.2
6/14/2019	12:08:55	405	71.4	52.8	0.2
6/14/2019	12:09:08	401	72	51.5	0.2



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EMSL Order: 051902775
Customer ID: AHER50
Customer PO:
Project ID: Woodbridge School #18

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Ahera Consultants, Inc.
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Fax: (609) 652-1140
Collected: 06/14/2019
Received: 06/14/2019
Analyzed: 06/14/2019

Project: 18-3262/Woodbridge Township School Dist, Indiana Avenue #18, Islin, NJ 08830 (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:	051902775-0001			051902775-0002			051902775-0003		
Client Sample ID:	0614-01			0614-02			0614-03		
Volume (L):	150			150			150		
Sample Location	Room 9			Room 11			Room 12		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	140	2870	47	182	3730	40.1	5	100	23.8
Aspergillus/Penicillium	-	-	-	2	40	0.4	3	60	14.3
Basidiospores	153	3140	51.4	242	4960	53.3	8	200	47.6
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	6	100	1.6	28	570	6.1	3	60	14.3
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Botrytis	-	-	-	-	-	-	-	-	-
Oidiodendron	-	-	-	-	-	-	-	-	-
Peronospora	-	-	-	-	-	-	-	-	-
Polythrincium	-	-	-	-	-	-	-	-	-
Triadelphia	-	-	-	-	-	-	-	-	-
Total Fungi	299	6110	100	454	9300	100	19	420	100
Hypchal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	1	20	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	1	-	-	2	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	2	-	-	1	-

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

Chaoyut 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: 06/17/2019 16:07:25

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Received: 06/14/2019
Analyzed: 06/14/2019

Project: 18-3262/Woodbridge Township School Dist, Indiana Avenue #18, Islin, NJ 08830 (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	051902775-0004			051902775-0005			051902775-0006		
	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
0614-04 150 Room 13				0614-05 150 Room 14			0614-06 150 Room 17		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	1	20	1.7
Ascospores	213	4370	49.9	13	270	39.7	18	370	30.8
Aspergillus/Penicillium	-	-	-	-	-	-	11	230	19.2
Basidiospores	183	3750	42.8	17	350	51.5	13	270	22.5
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	29	600	6.8	-	-	-	11	230	19.2
Curvularia	-	-	-	1	20	2.9	1	20	1.7
Epicoccum	-	-	-	-	-	-	1	20	1.7
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	1	20	0.2	-	-	-	-	-	-
Myxomycetes++	-	-	-	2	40	5.9	1	20	1.7
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Botrytis	-	-	-	-	-	-	-	-	-
Oidiodendron	-	-	-	-	-	-	-	-	-
Peronospora	1	20	0.2	-	-	-	-	-	-
Polythrincium	-	-	-	-	-	-	-	-	-
Triadelphia	-	-	-	-	-	-	1	20	1.7
Total Fungi	427	8760	100	33	680	100	58	1200	100
Hypthal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	1	20	-
Pollen	-	-	-	1	20	-	1	20	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	1	-	-	2	-	-	2	-
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.

Chaoyut Sae Lao, Laboratory Manager
or other approved signatory

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

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Analyzed: 06/14/2019

Project: 18-3262/Woodbridge Township School Dist, Indiana Avenue #18, Islin, NJ 08830 (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	051902775-0007			051902775-0008			051902775-0009		
	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
0614-07 150 Room 18	0614-08 150 Room 19	0614-09 150 Room 20							
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	22	450	25.6	7	100	12.8	13	270	29
Aspergillus/Penicillium	24	490	27.8	10	210	26.9	14	290	31.2
Basidiospores	33	680	38.6	18	370	47.4	12	250	26.9
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	1	20	2.6	-	-	-
Cladosporium	7	100	5.7	4	80	10.3	7	100	10.8
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Botrytis	-	-	-	-	-	-	-	-	-
Oidiodendron	2	40	2.3	-	-	-	1	20	2.2
Peronospora	-	-	-	-	-	-	-	-	-
Polythrincium	-	-	-	-	-	-	-	-	-
Triadelphia	-	-	-	-	-	-	-	-	-
Total Fungi	88	1760	100	40	780	100	47	930	100
Hypchal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	1*	7*	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

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

Chaoyut Sae Lao, Laboratory Manager
or other approved signatory

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

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Initial report from: 06/17/2019 16:07:25

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Received: 06/14/2019
Analyzed: 06/14/2019

Project: 18-3262/Woodbridge Township School Dist, Indiana Avenue #18, Islin, NJ 08830 (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	051902775-0010			051902775-0011					
	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
0614-10 150 Room 22				0614-11 150 Outside Adj Main Entrance					
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total			
Alternaria (Ulocladium)	-	-	-	9	200	0.7	-	-	-
Ascospores	24	490	44.1	80	1600	5.7	-	-	-
Aspergillus/Penicillium	15	310	27.9	13	270	1	-	-	-
Basidiospores	10	210	18.9	345	7080	25.2	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	7	100	9	912	18700	66.7	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	1	20	0.1	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	4	80	0.3	-	-	-
Myxomycetes++	-	-	-	3	60	0.2	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	1*	7*	0	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Botrytis	-	-	-	1	20	0.1	-	-	-
Oidiodendron	-	-	-	-	-	-	-	-	-
Peronospora	-	-	-	-	-	-	-	-	-
Polythrincium	-	-	-	1	20	0.1	-	-	-
Triadelphia	-	-	-	-	-	-	-	-	-
Total Fungi	56	1110	100	1370	28057	100			
Hypthal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	1*	7*	-	2	40	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	-	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	-	-
Skin Fragments (1-4)	-	2	-	-	1	-	-	-	-
Fibrous Particulate (1-4)	-	2	-	-	1	-	-	-	-
Background (1-5)	-	1	-	-	1	-	-	-	-

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

Chaoyut Sae Lao, Laboratory Manager
or other approved signatory

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Initial report from: 06/17/2019 16:07:25

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MICROBIOLOGY – CHAIN OF CUSTODY

Date Collected <i>06/14/2019</i>	Date Submitted: <i>06/14/2019</i>
Contact: <i>John Smeyer Michael Bergin</i>	Company: AHERA Consultants, Inc.
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	Fax: (609) 652-1140
Client: Woodbridge Township School Dist.	E-mail: <i>ahera@comcast.net</i>

Job Number: 18-3262

<p>Air Samples</p> <p><input checked="" type="checkbox"/> Mold & Fungi by Air-O-Cell Cassette (Select turnaround 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 turnaround 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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TURN AROUND TIME:

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

SAMPLE ID	LOCATION	VOLUME	COMMENTS
0614-01	Room 9	150L	QT-001
0614-02	Room 11	150L	QT-002
0614-03	Room 12	150L	QT-003
0614-04	Room 13	150L	QT-004
0614-05	Room 14	150L	QT-005
0614-06	Room 17	150L	QT-006
0614-07	Room 18	150L	QT-007
0614-08	Room 19	150L	QT-008
0614-09	Room 20	150L	QT-009
0614-10	Room 22	150L	QT-010
0614-11	Outside Adj. Main Entrance	150L	QT-011
Relinquished by:	Technician Signature: <i>Michael Bergin</i>	Date: <i>06/14/19</i>	Time:
Received by:	Laboratory Representative:	Date:	Time:

RECEIVED

JUN 14 2019 3:20 PM

BY *[Signature]*
 EMSL PISCATAWAY