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# INDOOR AIR QUALITY EVALUATION REPORT

## Annual Assessment

**Maplewood Middle School**  
**7 Burnet Street,**  
**Maplewood, NJ 07040**

Prepared for

South Orange/Maplewood School District  
525 Academy Street  
Maplewood, NJ 07040  
Attn: Mr. Thomas Giglio

Survey dates:

03/14/2022

Inspection performed by:

Mr. Eric Clarkson

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**Section I****Introduction**

AHERA Consultants Inc. was retained by the South Orange / Maplewood School District to conduct an annual indoor air quality (IAQ) assessment at the Maplewood Middle School located in Maplewood, New Jersey. This assessment was performed at the request of Mr. Thomas Giglio, Facilities Director with the South Orange Maplewood School District.

**Section II****Physical Inspection****Existing Conditions**

On March 14, 2021, I Eric Clarkson of AHERA Consultants, Inc. arrived at the Maplewood Middle School. The custodial staff provided access to various areas within the building.

Testing and visual inspection of random areas was performed. HVAC systems within this facility consist of boilers, radiators, unit ventilators and window air conditioning units. Periodic maintenance is performed on the system(s).

Based on my observations I determined that ambient air sampling to assess current air quality conditions with respect to temperature, humidity, carbon dioxide CO<sub>2</sub>, carbon monoxide CO, mold screening and airborne asbestos in random locations inside the building would be appropriate.

**Section III****Sampling Procedures**

- ◇ Indoor air quality measurements for temperature, humidity, CO<sub>2</sub> and CO were taken utilizing a Model 7545 IAQ-Calc Indoor Air Quality Meter. (See IAQ Investigation Logs provided within this report)
- ◇ Asbestos air sampling was conducted utilizing TEM sampling media and a high-volume air sampling pump calibrated to 10 LPM. Testing was conducted in the 1<sup>st</sup> floor hallway.
- ◇ Air sampling for airborne fungal bioaerosols was performed utilizing 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 72-hour turnaround period.

**Section IV****Testing Results****◇ Air-O-Cell Sampling Results****March 14, 2022****ANALYSIS OF FUNGAL SPORES & PARTICULATES BY OPTICAL MICROSCOPY: AIR-O-CELL Cassette**

SAMPLE ID #	SAMPLE LOCATION	PARTICLE ID	COUNT/ m3
MM-01	1 <sup>ST</sup> Floor hallway	Alternaria (Ulocladium)	7
		Ascospores	20
		Aspergillus/Penicillium	550
		Basidiospores	310
		Cladosporium	200
		Scopulariopsis/Microascus	20
		<b>Total Fungi</b>	<b>1107</b>
MM-02	Outdoor Control Sample	Ascospores	10
		Aspergillus/Penicillium	200
		Basidiospores	460
		Cladosporium	350
		Myxomycetes	20
		<b>Total Fungi</b>	<b>1040</b>

**Results:** Concentrations of indoor fungal spores were comparable to but minimally higher than the outdoor control sample with respect to the total counts of fungal structures per cubic meter of air (FS/m<sup>3</sup>). No visible active mold growth was observed at the time of this assessment.

◇ **Asbestos Air Sampling Results** **March 14, 2022**

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM)

SAMPLE ID #	SAMPLE LOCATION	Asbestos Type(s)	Asbestos Concentration (S/CC <sup>2</sup> )
MM-01	1 <sup>st</sup> Floor hallway	None Detected	<.0044

**Results:** Sample was “none detected” for asbestos structures.

**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.

**Observations:**

Results of the air testing conducted during this assessment did not indicate abnormal or exceptional concentrations of airborne fungal bioaerosols at the time of testing. Relative humidity throughout the building was below the recommended 30% at the time of testing indicating very dry conditions. The temperature, carbon dioxide and carbon monoxide levels were all within acceptable ranges.

Sampling results for airborne asbestos fibers were none detected.

**Recommendations:**

Continue to monitor relative humidity (RH) within the building during different times of the year. RH is typically lower during the winter months due to the heating season. Maintain temperatures between the desired range of 68 and 79 degrees.

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.

Finally, increasing fresh air exchanges within interior spaces should help ameliorate and/or maintain acceptable indoor air quality. Proper cleaning procedures will help eliminate dirt/dust & fungal spore accumulations as well.

Maintain all asbestos containing materials in an intact condition and do not disturb.

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**ATTACHMENTS:**

IAQ Investigation Logs - (3 Pages)  
Asbestos Fiber Analysis Report (1 Page)  
EMSL Expanded Fungal Assessment Report - (14 Pages)

IAQ Investigation Log

<b>Test ID:</b>	<b>Maplewood Middle School</b>	<b>1st Floor Hallway</b>
<b>Model Number:</b>	IAQ Calc 7545	
<b>Serial Number:</b>	T75451321002	
<b>Test ID:</b>	42	
<b>Test Abbreviation:</b>	Test 042	
<b>Start Date:</b>	3/14/2022	
<b>Start Time:</b>	17:17:43	
<b>Duration (dd:hh:mm:ss):</b>	0:00:01:02	
<b>Log Interval (mm:ss):</b>	0:05	
<b>Number of points:</b>	5	
<b>Notes:</b>	Test 042	



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	<b>Units:</b>	ppm	deg F	%rh	ppm
	<b>Average:</b>	469	73.8	21.7	4.7
	<b>Minimum:</b>	464	72.9	20.9	4.6
	<b>Time of Minimum:</b>	17:18:15	17:17:48	17:18:45	17:18:15
	<b>Date of Minimum:</b>	3/14/2022	3/14/2022	3/14/2022	3/14/2022
	<b>Maximum:</b>	480	74.4	23.1	4.7
	<b>Time of Maximum:</b>	17:17:48	17:18:45	17:18:33	17:17:48
	<b>Date of Maximum:</b>	3/14/2022	3/14/2022	3/14/2022	3/14/2022

<b>Calibration</b>	<b>Meter:</b>	6/2/2021
<b>Calibration</b>	<b>Sensor:</b>	CO2 - Carbon Dioxide
	<b>Cal. Date</b>	6/2/2021

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
<b>MM/DD/YYYY</b>	<b>hh:mm:ss</b>	<b>ppm</b>	<b>deg F</b>	<b>%rh</b>	<b>ppm</b>
3/14/2022	17:17:48	480	72.9	21.7	4.7
3/14/2022	17:18:00	472	73.5	21.4	4.7
3/14/2022	17:18:15	464	73.9	21.5	4.6
3/14/2022	17:18:33	466	74.2	23.1	4.7
3/14/2022	17:18:45	465	74.4	20.9	4.7

IAQ Investigation Log

<b>Test ID:</b>	<b>Maplewood Middle School</b>	<b>2nd Floor Hallway</b>
<b>Model Number:</b>	IAQ Calc 7545	
<b>Serial Number:</b>	T75451321002	
<b>Test ID:</b>	43	
<b>Test Abbreviation:</b>	Test 043	
<b>Start Date:</b>	3/14/2022	
<b>Start Time:</b>	17:19:55	
<b>Duration (dd:hh:mm:ss):</b>	0:00:01:14	
<b>Log Interval (mm:ss):</b>	0:05	
<b>Number of points:</b>	5	
<b>Notes:</b>	Test 043	




Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	<b>Units:</b>	ppm	deg F	%rh	ppm
	<b>Average:</b>	466	74.4	17.6	5.4
	<b>Minimum:</b>	453	73.9	17.3	5.4
	<b>Time of Minimum:</b>	17:20:38	17:20:00	17:21:09	17:21:09
	<b>Date of Minimum:</b>	3/14/2022	3/14/2022	3/14/2022	3/14/2022
	<b>Maximum:</b>	501	74.7	18.3	5.4
	<b>Time of Maximum:</b>	17:20:00	17:21:09	17:20:00	17:20:00
	<b>Date of Maximum:</b>	3/14/2022	3/14/2022	3/14/2022	3/14/2022

<b>Calibration</b>	<b>Meter:</b>	6/2/2021
<b>Calibration</b>	<b>Sensor:</b>	CO2 - Carbon Dioxide
	<b>Cal. Date</b>	6/2/2021

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
<b>MM/DD/YYYY</b>	<b>hh:mm:ss</b>	<b>ppm</b>	<b>deg F</b>	<b>%rh</b>	<b>ppm</b>
3/14/2022	17:20:00	501	73.9	18.3	5.4
3/14/2022	17:20:17	460	74.2	17.5	5.4
3/14/2022	17:20:38	453	74.5	17.3	5.4
3/14/2022	17:20:52	454	74.6	17.4	5.4
3/14/2022	17:21:09	461	74.7	17.3	5.4

IAQ Investigation Log

<b>Test ID:</b>	<b>Maplewood Middle School</b>	<b>Outdoor Control Sample</b>
<b>Model Number:</b>	IAQ Calc 7545	
<b>Serial Number:</b>	T75451321002	
<b>Test ID:</b>	44	
<b>Test Abbreviation:</b>	Test 044	
<b>Start Date:</b>	3/14/2022	
<b>Start Time:</b>	17:31:46	
<b>Duration (dd:hh:mm:ss):</b>	0:00:01:06	
<b>Log Interval (mm:ss):</b>	0:05	
<b>Number of points:</b>	5	
<b>Notes:</b>	Test 044	

Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	<b>Units:</b>	ppm	deg F	%rh	ppm
	<b>Average:</b>	456	57.1	30	5.5
	<b>Minimum:</b>	450	56.2	28.4	5.2
	<b>Time of Minimum:</b>	17:32:36	17:32:52	17:31:51	17:32:52
	<b>Date of Minimum:</b>	3/14/2022	3/14/2022	3/14/2022	3/14/2022
	<b>Maximum:</b>	462	58.2	31.9	5.7
	<b>Time of Maximum:</b>	17:32:52	17:31:51	17:32:52	17:31:51
	<b>Date of Maximum:</b>	3/14/2022	3/14/2022	3/14/2022	3/14/2022

<b>Calibration</b>	<b>Meter:</b>	6/2/2021			
<b>Calibration</b>	<b>Sensor:</b>	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	<b>Cal. Date</b>	6/2/2021	6/2/2021	6/2/2021	6/2/2021

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
<b>MM/DD/YYYY</b>	<b>hh:mm:ss</b>	<b>ppm</b>	<b>deg F</b>	<b>%rh</b>	<b>ppm</b>
3/14/2022	17:31:51	452	58.2	28.4	5.7
3/14/2022	17:32:12	458	57.6	28.8	5.6
3/14/2022	17:32:26	458	57	30.3	5.7
3/14/2022	17:32:36	450	56.7	30.4	5.3
3/14/2022	17:32:52	462	56.2	31.9	5.2



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EMSL Order: 052201046  
Customer ID: AHER50  
Customer PO:  
Project ID:

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**Phone:** (609) 652-1833  
**Fax:** (609) 652-1140  
**Received Date:** 03/15/2022 09:00 AM  
**Analysis Date:** 03/17/2022  
**Collected Date:** 03/14/2022

**Project:** 22-6032 / Maplewood Middle School, 7 Burnet Street, Maplewood, NJ 07040

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area		Non Asb	Asbestos Type(s)	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
			Analyzed (mm <sup>2</sup> )				≥0.5μ < 5μ	≥5μ		(S/mm <sup>2</sup> )	(S/cc)
MM-01 052201046-0001	1st Floor Hallway	1350.00	0.0645	0	None Detected	0	0	0.0044	<16.00	<0.0044	

Analyst(s)

Colin Slattery (1)

Chaiyut Sae Lao, Laboratory Manager  
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in structures/cm3 are not covered by the laboratory's NVLAP accreditation. Measurement of uncertainty available upon request.

Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NVLAP Lab Code 101048-2, NJ NELAC 12037, Philadelphia 289, CT PH-0266

Initial report from: 03/18/2022 07:36 AM





# EXPANDED FUNGAL ASSESSMENT REPORT <sup>TM</sup>

Prepared Exclusively For

AHERA Consultants, Inc.

PO Box 385

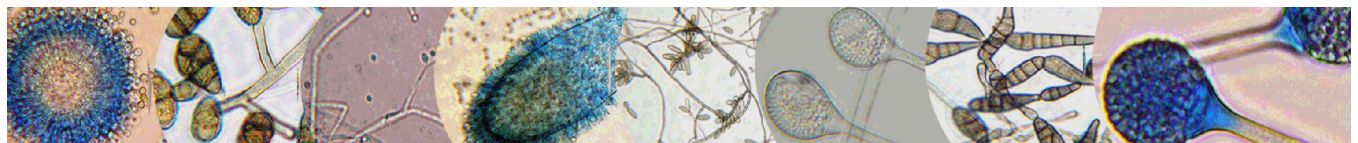
Oceanville, NJ 08231-0385

Phone:609-652-1833

**Report Date:** 3/19/2022  
**Project:** 22-6032 / South Orange / Maplewood School District, Maplewood Middle School,  
7 Burnet Street, Maplewood, NJ 07040  
**EMSL Order:** 052201036

AIHA LAP, LLC.

EMLAP #167035



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EMSL Order: 052201036  
Customer ID: AHER50  
Collected: 3/14/2022  
Received: 3/15/2022  
Analyzed: 3/16/2022

**Proj:** 22-6032 / South Orange / Maplewood School District, Maplewood Middle School, 7 Burnet Street, Maplewood, NJ 07040

## 1. Description of Analysis

### Analytical Laboratory

EMSL Analytical, Inc. (EMSL) is a nationwide, full service, analytical testing laboratory network providing Asbestos, Mold, Indoor Air Quality, Microbiological, Environmental, Chemical, Forensic, Materials, Industrial Hygiene and Mechanical Testing services since 1981. Ranked as the premier independently owned environmental testing laboratory in the nation, EMSL puts analytical quality as its top priority. This quality is recognized by many well-respected federal, state and private accrediting agencies, and assured by our high-quality personnel, including many Ph.D. microbiologists and mycologists.

EMSL is an independent laboratory that performed the analysis of these samples. EMSL did not conduct the sampling or site investigation for this report. The samples referenced herein were analyzed under strict quality control procedures using state-of-the-art microbiological methods. The analytical methods used and the data presented are scientifically and legally defensible.

The laboratory data is provided in compliance with ISO-IEC 17025 guidelines for the particular test(s) requested, including any associated limitations for the methods employed. These data are intended for use by professionals having knowledge of the testing methods necessary to interpret them accurately.

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## Air Samples - Spore traps:

Spore traps are commercially available sampling devices that capture airborne particles on an adhesive slide. Air is pulled through the device using a vacuum pump. Spores, as well as other airborne particles, are impacted on the collection adhesive. Using spore trap collection methods has inherent limitations. These collection methods are biased towards larger spore sizes.

The analysis for total spore counts is a direct microscopic examination and does not include culturing or growing the fungi. Therefore, the results include both viable and non-viable spores. Some fungal groups produce similar spore types that cannot be distinguished by direct microscopic examination alone (i.e., *Aspergillus/Penicillium*, and others). Other spore types may lack distinguishing features that aid in their identification. These types are grouped into larger categories such as Ascospores or Basidiospores.

Fungal spores are identified and grouped by morphological characteristics including color, shape, septation, ornamentation, and fruiting structures (if present) which are compared to published mycological identification keys and texts. EMSL reports provide spore counts per cubic meter of air to three significant figures. Please note that each spore category is reported to three significant figures. Due to rounding and the application of three significant figures the sum of the individual spore numbers may not equal the total spore count on the report. EMSL does not maintain responsibility for final volume concentrations (counts/m<sup>3</sup>) since this volume is provided by the field collector and cannot be verified by EMSL.

EMSL analyzes spore traps using phase contrast microscopy. There is a wide choice of collection devices (Air-O-Cell, Micro-5, Burkhard, etc.) on the market. Differences in analytical method may exist between spore trap devices.

Spore trap results are reported in spores per cubic meter of air. Due to the other airborne particles collected with the spores, EMSL reports a background particle density. Background density is an indication of overall particulate matter present on the sample (i.e. dust in the air). High background concentrations may obscure spores such as the *Penicillium/Aspergillus* group. The rating system is from 1-5 with 1 = 1 - 25% of the background obscured by material, 2 = 26 - 50%, 3 = 51 - 75%, 4 = 76% - 99%, 5 = 100% or overloaded. A background rating of 4 or higher should be regarded as a minimum count since the actual concentrations may be higher than those reported. EMSL will not be held responsible for overloading of samples. Sample volumes are left to the discretion of the company or persons conducting the fieldwork.

Skin fragment density is the percentage of skin cells making up the total background material, 1 = 1 - 25%, 2 = 26 - 50%, 3 = 51 - 75%, 4 = 76-100%. Skin fragment density is considered an indication of the general cleanliness in the area sampled. It has been estimated that up to 90% of household dust consists of dead skin cells.

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**Proj:** 22-6032 / South Orange / Maplewood School District, Maplewood Middle School, 7 Burnet Street, Maplewood, NJ 07040

## 2. Analytical Results

See attached data reports and charts.

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## 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:	052201036-0001 MM-01 150 1st Floor Hallway			052201036-0002 MM-02 150 Outdoor Control Sample			
Spore Types	Raw Count	Count/m <sup>3</sup>	% of Total	Raw Count	Count/m <sup>3</sup>	% of Total	
Alternaria (Ulocladium)	1*	7*	0.6	-	-	-	-
Ascospores	1	20	1.8	2*	10*	1	-
Aspergillus/Penicillium	25	550	49.7	9	200	19.2	-
Basidiospores	14	310	28	21	460	44.2	-
Bipolaris++	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-
Cladosporium	8	200	18.1	16	350	33.7	-
Curvularia	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	1	20	1.9	-
Pithomyces++	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-
Scopulariopsis/Microascu	1	20	1.8	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-
<b>Total Fungi</b>	<b>50</b>	<b>1107</b>	<b>100</b>	<b>49</b>	<b>1040</b>	<b>100</b>	-
Hyphal Fragment	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-
Pollen	-	-	-	1	20	-	-
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)	-	3	-	-	2	-	-

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

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

Nicholas Maslowski, Microbiology Lab Manager  
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. High levels of background particulate can obscure spores and other particulates, leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. "" Denotes particles found at 300X. "\*" Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. Skin & Fibrous ratings: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-100%) of the background particles.

Initial report from: 03/18/2022 07:28:25

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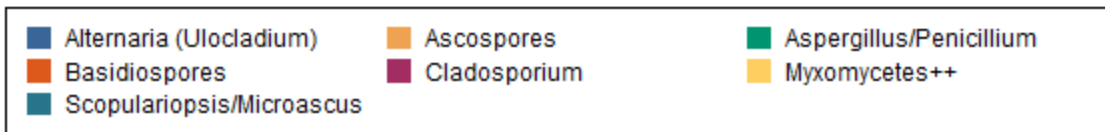
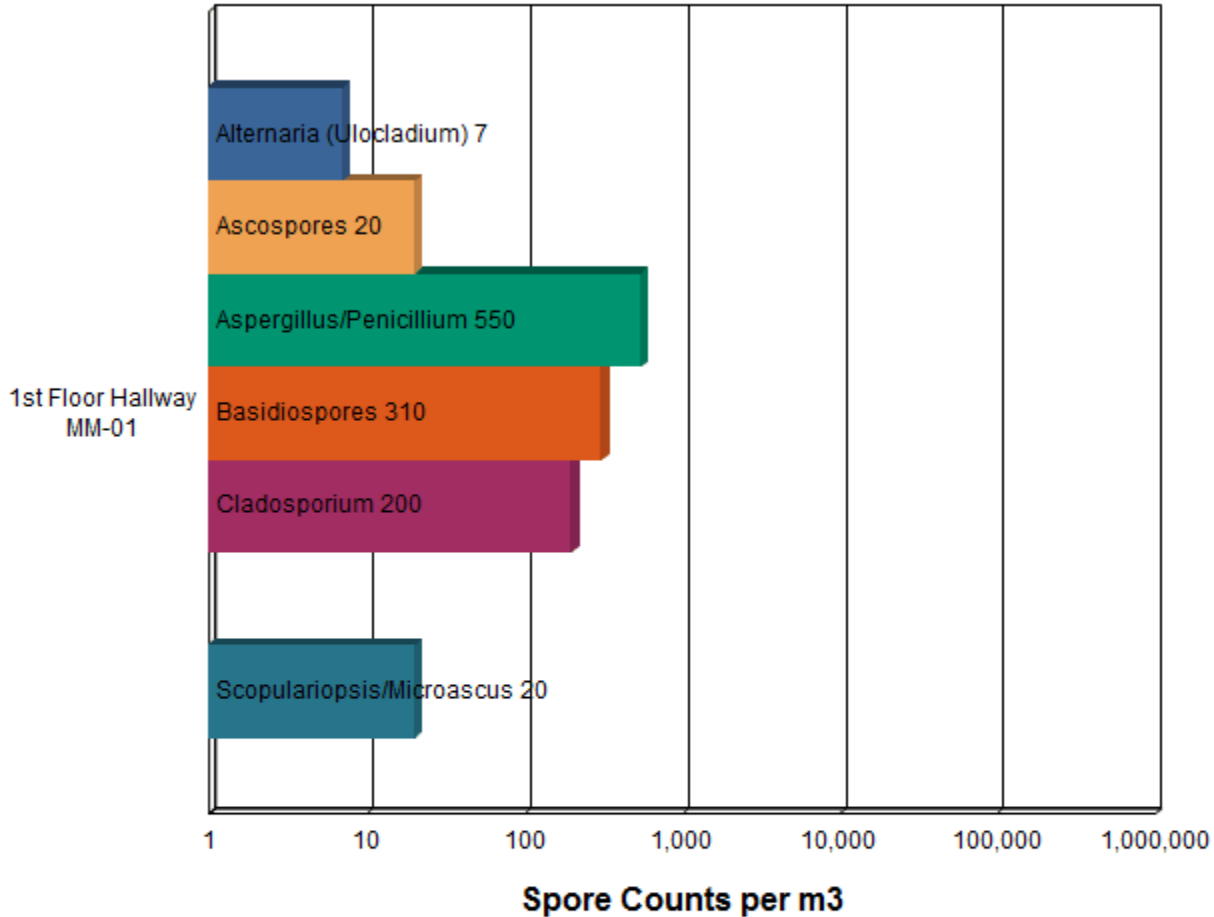
Email: [piscatawaylab@emsl.com](mailto:piscatawaylab@emsl.com)

**Attn:** AHERA Consultants, INC  
AHERA Consultants, Inc.  
PO Box 385  
Oceanville, NJ 08231-0385

EMSL Order: 052201036  
Customer ID: AHER50  
Collected: 3/14/2022  
Received: 3/15/2022  
Analyzed: 3/16/2022

**Proj:** 22-6032 / South Orange / Maplewood School District, Maplewood Middle School, 7 Burnet Street, Maplewood, NJ 07040

## Spore Trap Report: Total Counts



\* The chart is displayed using a logarithmic scale. Bar size is not directly proportional to the number of spores.

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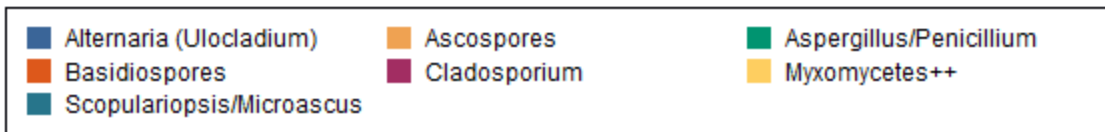
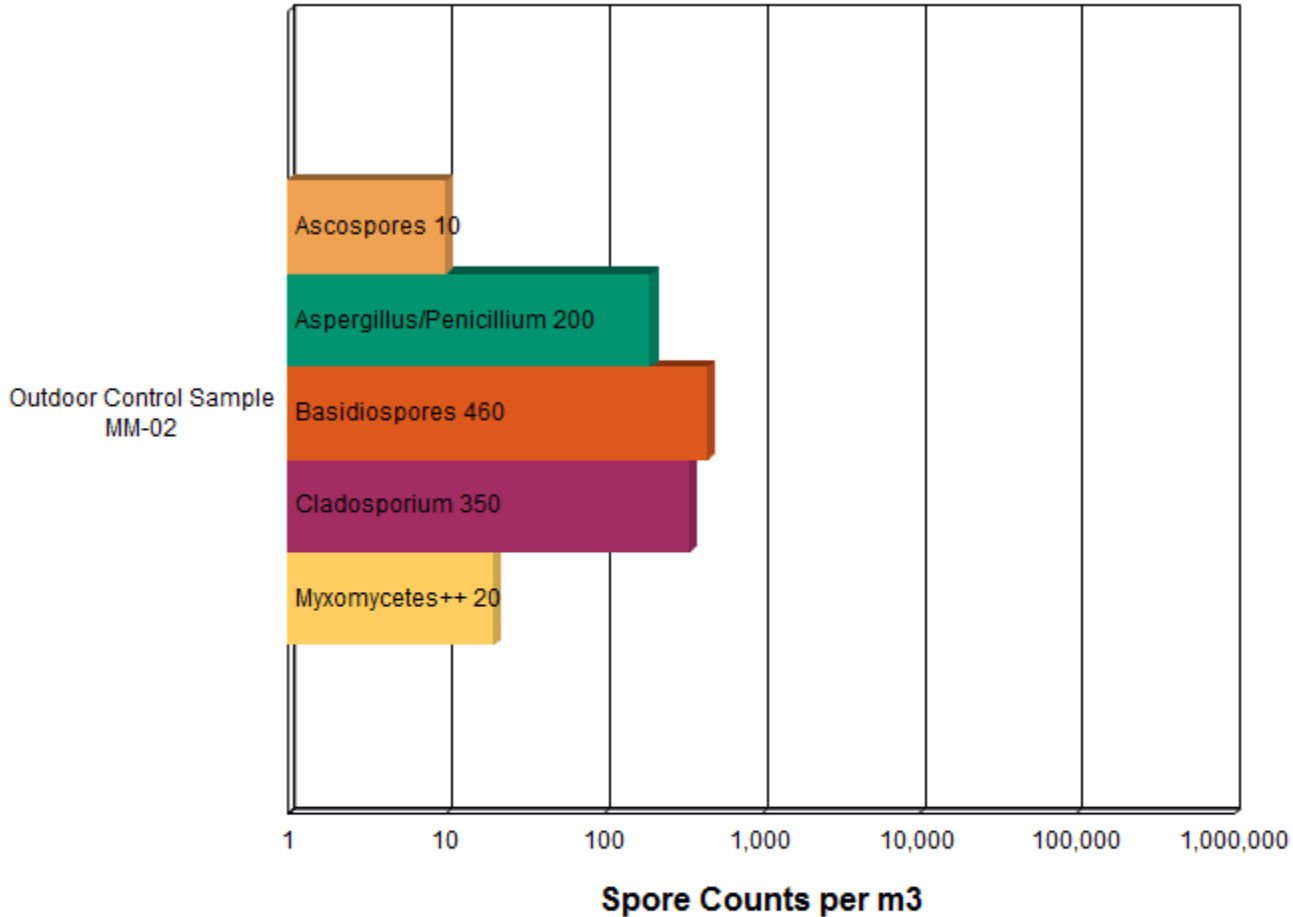
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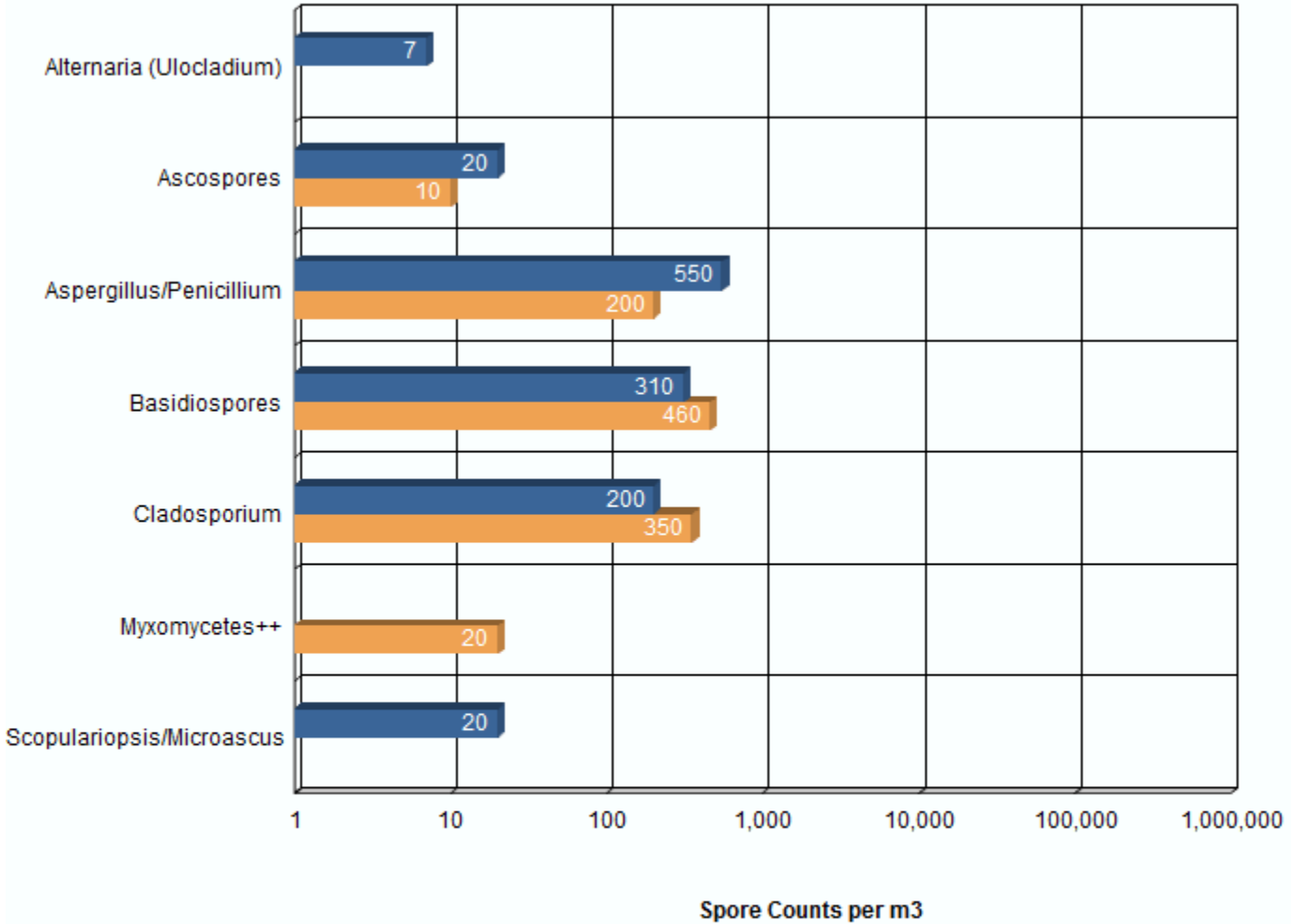
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## Background Comparison Chart



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## 3. Understanding the Results

EMSL Analytical, Inc. is an independent laboratory, providing unbiased and scientifically valid results. These data represent only a portion of an overall IAQ investigation. Visual information and environmental conditions measured during the site assessment (humidity, moisture readings, etc.) are crucial to any final interpretation of the results. Many factors impact the final results; therefore, result interpretation should only be conducted by qualified individuals. The American Conference of Governmental Industrial Hygienists (ACGIH) has published a good reference book covering sampling and data interpretation. It is entitled, Bioaerosols: Assessment and Control, 1999.

Fungal spores are found everywhere. Whether or not symptoms develop in people exposed to fungi depends on the nature of the fungal material (e.g., allergenic, toxic, or infectious), the exposure level, and the susceptibility of exposed persons. Susceptibility varies with the genetic predisposition (e.g., allergic reactions do not always occur in all individuals), age, pre-existing medical conditions (e.g., diabetes, cancer, or chronic lung conditions), use of immunosuppressive drugs, and concurrent exposures. These reasons make it difficult to identify dose/response relationships that are required to establish "safe" or "unsafe" levels (i.e., permissible exposure limits).

It is generally accepted in the industry that indoor fungal growth is undesirable and inappropriate, necessitating removal or other appropriate remedial actions. The New York City guidelines and EPA guidelines for mold remediation in schools and commercial buildings define the conditions warranting mold remediation. Always remember that water is the key. Preventing water damage or water condensation will prevent mold growth.

This report is not intended to provide medical advice or advice concerning the relative safety of an occupied space. Always consult an occupational or environmental health physician who has experience addressing indoor air contaminants if you have any questions.



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## 4. Glossary of Fungi

<b>ALTERNARIA(ULOCLADIUM)</b>	
<b>Natural Habitat</b>	Common saprobe and pathogen of plants. Typically found on plant tissue, decaying wood, and foods. Soil . Air outdoors.
<b>Suitable Substrates in the Indoor Environment</b>	Indoors near condensation (window frames, showers), House dust (in carpets, and air). Also colonizes building supplies, computer disks, cosmetics, leather, optical instruments, paper, sewage, stone monuments, textiles, wood pulp, and jet fuel
<b>Water Activity</b>	Aw =0.85-0.88 (water damage indicator)
<b>Mode of Dissemination</b>	Wind
<b>Allergic Potential</b>	Type I allergies (hay fever, asthma), Type III (hypersensitivity pneumonitis)
<b>Potential or Opportunistic Pathogens</b>	Phaeohyphomycosis (causing cystic granulomas in the skin and subcutaneous tissue). In immunocompetent patients, Alternaria colonizes the paranasal sinuses, leading to chronic hypertrophic sinusitis
<b>Industrial Uses</b>	Biocontrol of weed plants ·Biocontrol fungal plant pathogens.
<b>Potential Toxins Produced</b>	Alternariol (AOH) . Alternariol monomethylether (AME). Tenuazonic acid (TeA). Altenuene (ALT). Alttoxins (ATX)
<b>Other Comments</b>	Many species of Ulocladium have been renamed as Alternaria. Alternaria spores are one of the most common and potent indoor and outdoor airborne allergens. Additionally, Alternaria sensitization has been determined to be one of the most important factors in the onset of childhood asthma. Synergy with Cladosporium or Ulocladium may increase the severity of symptoms
<b>References</b>	Alternaria redefined. J. Woudenberg et al., Studies in Mycology. Volume 75, June 2013, Pages 171-212

<b>ASCOSPORES</b>	
<b>Natural Habitat</b>	Everywhere in nature.
<b>Suitable Substrates in the Indoor Environment</b>	Depends on genus and species.
<b>Water Activity</b>	Depends on genus and species.
<b>Mode of Dissemination</b>	Forcible ejection or passive release and dissemination by wind or insects.
<b>Allergic Potential</b>	Depends on genus and species.
<b>Potential or Opportunistic Pathogens</b>	Depends on genus and species.
<b>Industrial Uses</b>	Depends on genus and species.
<b>Potential Toxins Produced</b>	Depends on genus and species.
<b>Other Comments</b>	Ascospores are the result of sexual reproduction and produced in a saclike structure called an ascus. All ascospores belong to members of the Phylum Ascomycota, which encompasses a plethora of genera worldwide.

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## ASPERGILLUS/PENICILLIUM

<b>Natural Habitat</b>	Plant debris ·Seed ·Cereal crops
<b>Suitable Substrates in the Indoor Environment</b>	Grows on a wide range of substrates indoors ·Prevalent in water damaged buildings ·Foods (blue mold on cereals, fruits, vegetables, dried foods) ·House dust ·Fabrics ·Leather ·Wallpaper ·Wallpaper glue
<b>Water Activity</b>	Aw=0.75-0.94
<b>Mode of Dissemination</b>	Wind ·Insects
<b>Allergic Potential</b>	Type I (hay fever, asthma) ·Type III (hypersensitivity)
<b>Potential or Opportunistic Pathogens</b>	Possible depending on the species.
<b>Industrial Uses</b>	Many depending on the species
<b>Potential Toxins Produced</b>	Possible depending on the species.
<b>Other Comments</b>	Spores of Aspergillus and Penicillium (including others such as Acremonium, Talaromyces, and Paecilomyces) are small and spherical with few distinguishing characteristics. They cannot be differentiated or speciated by non-viable impaction sampling methods. Some species with very small spores may be undercounted in samples with high background debris.

## BASIDIOSPORES

<b>Natural Habitat</b>	Forest floors. Lawns .Plants (saprobies or pathogens depending on genus)
<b>Suitable Substrates in the Indoor Environment</b>	Depends on genus. Wood products
<b>Water Activity</b>	Unknown.
<b>Mode of Dissemination</b>	Forcible ejection. Wind currents.
<b>Allergic Potential</b>	Type I allergies (hay fever, asthma) . Type III (hypersensitivity pneumonitis)
<b>Potential or Opportunistic Pathogens</b>	Depends on genus.
<b>Industrial Uses</b>	Edible mushrooms are used in the food industry.
<b>Potential Toxins Produced</b>	Amanitins. monomethyl-hydrazine. muscarine. ibotenic acid. psilocybin.
<b>Other Comments</b>	Basidiospores are the result of sexual reproduction and formed on a structure called the basidium. Basidiospores belong to the members of the Phylum Basidiomycota, which includes mushrooms, shelf fungi, rusts, and smuts.

## CLADOSPORIUM

<b>Natural Habitat</b>	Dead plant matter. Straw. Soil. Woody plants
<b>Suitable Substrates in the Indoor Environment</b>	Fiberglass duct liner. Paint. Textiles. Found in high concentration in water-damaged building materials.
<b>Water Activity</b>	Aw 0.84-0.88
<b>Mode of Dissemination</b>	Air
<b>Allergic Potential</b>	Type I (asthma and hay fever).
<b>Potential or Opportunistic Pathogens</b>	Edema. keratitis. onychomycosis. pulmonary infections. Sinusitis.
<b>Industrial Uses</b>	Produces 10 antigens.
<b>Potential Toxins Produced</b>	Cladospurin and Emodin.

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## MYXOMYCETES++

<b>Natural Habitat</b>	Decaying logs, Dead leaves , Dung , Lawns , Mulched flower beds, Lawns
<b>Suitable Substrates in the Indoor Environment</b>	Rotting lumber
<b>Free moisture required for mold growth</b>	Unknown
<b>Mode of Dissemination</b>	Insects, Water, Wind
<b>Allergic Potential</b>	Type I
<b>Potential or Opportunistic Pathogens</b>	Unknown
<b>Industrial Uses</b>	
<b>Other Comments</b>	Includes Myxomycetes, Smut, Rust, and Periconia.

## SCOPULARIOPSIS/MICROASCUS

<b>Natural Habitat</b>	Worldwide saprophytic fungi, being isolated from dead plant material and soil.
<b>Suitable Substrates in the Indoor Environment</b>	Dairy products, fruit, grain, paper, wood
<b>Water Activity</b>	Unknown
<b>Mode of Dissemination</b>	Wind
<b>Allergic Potential</b>	Hypersensitivity
<b>Potential or Opportunistic Pathogens</b>	While Scopulariopsis is commonly considered a contaminant, it may cause onychomycosis, skin lesions, keratitis, pulmonary infections, endocarditis, particularly in immunocompromised patients.
<b>Other Comments</b>	Scopulariopsis is the anamorphic name (asexual stage) and Microascus is the teleomorphic name (sexual stage).

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### Sample Retention

Samples analyzed by EMSL will be retained for 60 days after analysis date. Storage beyond this period is available for a fee with written request prior to the initial 30-day period. Samples containing hazardous/toxic substances which require special handling will be returned to the client immediately. EMSL reserves the right to charge a sample disposal fee or return samples to the client.

### Change Orders and Cancellation

All changes in the scope of work or turnaround time requested by the client after sample acceptance must be made in writing and confirmed in writing by EMSL. If requested changes result in a change in cost the client must accept payment responsibility. In the event work is cancelled by a client, EMSL will complete work in progress and invoice for work completed to the point of cancellation notice. EMSL is not responsible for holding times that are exceeded due to such changes.

### Warranty

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Client shall indemnify EMSL and its officers, directors and employees and hold each of them harmless for any liability, expense or cost, including reasonable attorney's fees, incurred by reason of any third-party claim in connection with EMSL services, the test result data or its use by client

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# Chain of Custody

Client: AHERA Consultants, Inc.  
PO Box 385  
Oceanville, NJ 08231-0385  
 Phone: (609) 652-1833  
 E-Mail: info@aherainc.com  
 Fax: (609) 652-1140

Project No: 22-6032  
 Project Name: Maplewood Middle School  
7 Burnet Street  
Maplewood, NJ 07040  
 Contact: E. Clarkson

**TYPE:**

ASBESTOS		LEAD		OTHER	
<input checked="" type="checkbox"/> AIR	<input type="checkbox"/> SOIL	<input type="checkbox"/> AIR	<input type="checkbox"/> SOIL		
<input type="checkbox"/> BULK	<input type="checkbox"/> DUST	<input type="checkbox"/> BULK	<input type="checkbox"/> PAINT		
<input type="checkbox"/> WATER	<input type="checkbox"/> OTHER	<input type="checkbox"/> WATER	<input type="checkbox"/> OTHER		

**ANALYSIS METHOD:**

<input type="checkbox"/> PCM: NIOSH 7400	<input type="checkbox"/> PLM: BULK ASBESTOS EPA600	<input checked="" type="checkbox"/> TEM: AHERA
<input type="checkbox"/> PCM: OSHA	<input type="checkbox"/> PLM: POINT COUNTING	<input type="checkbox"/> TEM: NIOSH 7402
<input type="checkbox"/> PCM: OTHER	<input type="checkbox"/> PLM: OTHER	<input type="checkbox"/> TEM: EPA LEVEL II
	<input type="checkbox"/> PLM EPA NOB (gravimetric reduction)	<input type="checkbox"/> TEM: ASBESTOS IN WATER
<input type="checkbox"/> AAS LEAD IN DRINKING WATER	<input type="checkbox"/> TEM: BULK ANALYSIS	
<input type="checkbox"/> AAS LEAD IN PAINT	<input type="checkbox"/> TEM: MICROVAC DUST	
<input type="checkbox"/> AAS OTHER LEAD	<input type="checkbox"/> TEM: EPA NOB (gravimetric reduction)	
<input type="checkbox"/> AAS OTHER METALS		
<input type="checkbox"/> AAS NIOSH 7082 (LEAD IN AIR)	<input type="checkbox"/> TOTAL DUST: EPA/OSHA	

**TURN AROUND TIME:**

5 DAY  72 HOUR  48 HOUR  24 HOUR  6 HOUR

**SAMPLE NUMBERS:**

CLIENT SAMPLE NUMBERS: MM-01 TO MM-01 TOTAL: 1EA

RELINQUISHED: <u>[Signature]</u>	DATE: <u>03/14/2022</u>	TIME: _____
RECEIVED: _____	DATE: _____	TIME: _____
SAMPLE LOG-IN: _____	DATE: _____	TIME: _____
ANALYZED: _____	DATE: _____	TIME: _____
REVIEWED: _____	DATE: _____	TIME: _____
ARCHIVED: _____	DATE: _____	TIME: _____
RELEASED: _____	DATE: _____	TIME: _____



MAR 15 2022  
 BY SP 9:00am  
 EMSL PISCATAWAY  
 Drop Box

PO Box 385  
 Oceanville, NJ 08231-0385  
 Phone: 609.652.1833  
 Fax: 609.652.1140  
 E-mail: ahera@aherainc.com

**AIR MONITORING DATA SHEET**

CLIENT: AHERA Consultants, Inc.

DATE: 03/14/2022

ADDRESS: PO Box 385

JOB #: 22-6032

Oceanville, NJ 08231-0385

ANALYSIS: TEM

METHOD AHERA

SITE ADDRESS: Maplewood Middle School

LOT #: \_\_\_\_\_

7 Burnet Street

BLDG: \_\_\_\_\_ FLOOR: \_\_\_\_\_

Maplewood, NJ 07040

PRE-CALIBRATED DATE: 03/14/2022

POST-CALIBRATED DATE: 03/14/2022

INITIALS: LOC

INITIALS: LOC

SAMPLE #	SAMPLE ID	FLOW RATE			START/STOP	TIME ELAPSE (MIN)	SAMPLE VOLUME (L)	RESULTS
		PRE	POST	AVG (L/MIN)				
MM-01	1ST FLOOR HALLWAY	10	10	10	18:05-20:20	135	1350	
<del>_____</del>								
<del>_____</del>								
<del>_____</del>								
<del>_____</del>								
<del>_____</del>								
<del>_____</del>								
<del>_____</del>								
<del>_____</del>								
<del>_____</del>								

TYPE SAMPLING:  PCM  TEM

MICROSCOPIST: \_\_\_\_\_

FIELD HYGIENIST: E. Clarkson

DATE ANALYZED: \_\_\_\_\_

DATE TAKEN: 03/14/2022

RELINQUISHED BY: \_\_\_\_\_ DATE/TIME

RECEIVED BY: \_\_\_\_\_ DATE/TIME

[Signature] 03/14/2022

**RECEIVED**  
MAR 15 2022



BY EMSL PISCATAWAY

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**MICROBIOLOGY – CHAIN OF CUSTODY**

Date Collected: 03/14/2022 Date Submitted: 03/14/2022

<b>Contact:</b> E. Clarkson	<b>Company:</b> AHERA Consultants, Inc.
<b>Project Location:</b> Maplewood Middle School 7 Burnet Street Maplewood, NJ 07040	PO Box 385 Oceanville, NJ 08231-0385
	<b>Phone:</b> (609) 652-1833
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<b>Client:</b> South Orange / Maplewood School District	<b>E-mail:</b> <u>info@aherainc.com</u>

Job Number: 22-6032

<p><b>Air Samples</b></p> <p><input checked="" type="checkbox"/> Mold &amp; Fungi by Air-O-Cell Cassette (Select turn around 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 turn around 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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**TURN AROUND TIME:**  
 SAME DAY  1 DAY  2 DAY  3 DAY  4 DAY  5 DAY  6-10 DAY

SAMPLE ID	LOCATION	VOLUME	COMMENTS
MM-01	1ST FLOOR HALLWAY	150 L	T-042
	2ND FLOOR HALLWAY		T-043
MM-02	OUTDOOR CONTROL SAMPLE		T-044
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Relinquished by:	Technical Signature: _____	Date: <u>03/14/22</u>	Time: _____
Received by: _____	Laboratory Representative: _____	Date: _____	Time: <u>MAR 15 2022</u>

BY SP 9:00am  
 EMSL PISCATAWAY

Drop Box