



October 23, 2020

Mr. Thomas Rambone, CEFM
Facilities Manager
Franklin Township Board of Education
3228 Coles Mill Rd.
Franklinville, NJ 08322

RE: Indoor Air Quality Inspection Report – October 2020
Main Road Elementary School
Epic Project No. 20-3198

Dear Mr. Rambone:

Epic Environmental Services, LLC (Epic) was retained by the Franklin Township Board of Education (District) to perform indoor air quality inspections for five randomly selected areas at the Main Road Elementary School. The inspections consisted of visual observations and the collection of temperature and relative humidity data. Additionally, samples for airborne mold spores were collected in the inspection areas.

The visual inspections focused on signs of moisture, water intrusion, and visible mold growth.

Temperature and relative humidity data were compared to current New Jersey Indoor Air Quality and industry standards.

Epic Environmental performed the inspections on October 14, 2020.

Acceptable Temperature and Relative Humidity Criteria

Acceptable Indoor Temperature Range:	68° - 79° Fahrenheit
Ideal Relative Humidity Range:	30-60%

The following rooms/areas were inspected:

Room 6, Room 21, Room 12, Room 54, Room 36

Observations, Comments, and Recommendations

Weather Conditions: Clear, 53° Fahrenheit, 76% Relative Humidity

Room 6

No visible mold was observed.
No evidence of recent water intrusion was observed.
Relative humidity was within acceptable range (43%). Temperature was within the acceptable range.
Airborne mold spore concentrations were near or below outside (background) concentrations.
No action required at this time.

Room 21

No visible mold was observed.
No evidence of recent water intrusion was observed.
Relative humidity was within acceptable range (46%). Temperature was within the acceptable range.
Airborne mold spore concentrations were near or below outside (background) concentrations.
No action required at this time.

Room 12

No visible mold was observed.
No evidence of recent water intrusion was observed.
Relative humidity was within acceptable range (42%). Temperature was within the acceptable range.
Airborne mold spore concentrations were near or below outside (background) concentrations.
No action required at this time.

Room 54

No visible mold was observed.
No evidence of recent water intrusion was observed.
Relative humidity was within acceptable range (42%). Temperature was within the acceptable range.
Airborne mold spore concentrations were near or below outside (background) concentrations.
No action required at this time.

Room 36

No visible mold was observed.
No evidence of recent water intrusion was observed.
Relative humidity was within acceptable range (42%). Temperature was within the acceptable range.
Airborne mold spore concentrations were near or below outside (background) concentrations.
No action required at this time.

Air Sample Results

Air samples were collected in each inspection area. Airborne mold spore concentrations were near or below background concentrations in all locations.

See Sample Data Summary

Conclusions and General Recommendations

- Assure steps are taken to maintain relative humidity between 30% to 60% during the upcoming winter season. Sensitive persons may experience dryness/general discomfort of the upper respiratory system in low relative humidity situations.

Please do not hesitate to contact me at 856-205-1077 should you have any questions.

An invoice for the completed project is enclosed.

Regards,



James Eberts
President
Epic Environmental Services, LLC

Sample Data Summary

Air Sampling

Air Samples

October 14, 2020

Air Sample Location	Airborne Mold Concentrations (spores/m ³)	
	Total	Individual Mold Concentrations
Room 6	14640	Ascospores 300
		Basidiospores 13800
		Myxomycetes 500
		Rust 40
Room 21	18140	Ascospores 500
		Aspergillus/Penicillium 500
		Basidiospores 15700
		Cladosporium 200
		Curvularia 200
		Myxomycetes 700
		Rust 40
Unidentifiable Spores 300		
Room 12	10600	Ascospores 300
		Aspergillus/Penicillium 400
		Basidiospores 9520
		Cladosporium 80
Room 54	44060	Ascospores 600
		Aspergillus/Penicillium 600
		Basidiospores 41900
		Cladosporium 600
		Epicoccum 80
		Ganoderma 200
Myxomycetes 82		
Room 36	10000	Aspergillus/Penicillium 600
		Basidiospores 9120
		Cladosporium 200
		Myxomycetes 80
Outside	89740	Ascospores 17001
		Aspergillus/Penicillium 400
		Basidiospores 87200
		Cladosporium 200
		Epicoccum 80
		Ganoderma 80
		Pestalotia 80

- Total mold counts found in **green** indicate a total airborne mold level NEAR or BELOW the outside (background) level.
- Total mold counts found in **red** indicate a total airborne mold level significantly ABOVE the outside (background) level, and may be an indicator of active mold growth.
- Individual molds listed in **green** indicate an individual airborne mold level NEAR or BELOW outside the (background) level.
- Individual molds listed in **purple** were not found in the background sample, but not considered evidence of a water/moisture issue or active mold growth.
- Individual molds listed in **red** indicate an individual airborne mold level significantly ABOVE the outside (background) level, and may be an indicator of active mold growth in the area.

Airborne mold spore concentrations were at or below background (outside) concentrations.



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
 Tel/Fax: (800) 220-3675 / (856) 786-0262
<http://www.EMSL.com> / cinnmicrolab@emsl.com

EMSL Order: 372017161
 Customer ID: EPIC62
 Customer PO: 20-3198
 Project ID:

Attention: James Eberts
 Epic Environmental Services, LLC
 1930 Brown Road
 Newfield, NJ 08344

Phone: (856) 205-1077
Fax: (856) 205-0413
Collected Date: 10/14/2020
Received Date: 10/15/2020
Analyzed Date: 10/19/2020

Project: Main Rd. ES Full IAQ

Test Report: Micro-5™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number:	372017161-0001			372017161-0002			372017161-0003		
Client Sample ID:	M-01			M-02			M-03		
Volume (L):	25			25			25		
Sample Location:	Outside			Rm. 6			Rm. 21		
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	21	1700	1.9	4	300	2	6	500	2.8
Aspergillus/Penicillium	5	400	0.4	-	-	-	6	500	2.8
Basidiospores	1090	87200	97.2	173	13800	94.3	196	15700	86.5
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	3	200	0.2	-	-	-	3	200	1.1
Curvularia	-	-	-	-	-	-	2	200	1.1
Epicoccum	1	80	0.1	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	1	80	0.1	-	-	-	-	-	-
Myxomycetes++	-	-	-	6	500	3.4	9	700	3.9
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	1*	40*	0.3	1*	40*	0.2
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	4	300	1.7
Zygomycetes	-	-	-	-	-	-	-	-	-
Pestalotia/Pestalotiopsis	1	80	0.1	-	-	-	-	-	-
Yeast	-	-	-	-	-	-	-	-	-
Total Fungi	1122	89740	100	184	14640	100	227	18140	100
Hyphal Fragment	-	-	-	1	80	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	80	-	-	80	-	-	80	-
Analyt. Sensitivity 300x	-	40*	-	-	40*	-	-	40*	-
Skin Fragments (1-4)	-	1	-	-	3	-	-	3	-
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.

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

Vincent Iuzzolino, M.S., Laboratory Director
 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.

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

Initial report from: 10/21/2020 03:40 PM

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com



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Project: Main Rd. ES Full IAQ

Test Report: Micro-5™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number:	372017161-0004			372017161-0005			372017161-0006		
Client Sample ID:	M-04			M-05			M-06		
Volume (L):	25			25			25		
Sample Location:	Rm. 12			Rm. 54			Rm. 36		
Spore Types	Raw Count	Count/m ²	% of Total	Raw Count	Count/m ²	% of Total	Raw Count	Count/m ²	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	4	300	2.8	7	600	1.4	-	-	-
Aspergillus/Penicillium	5	400	3.8	8	600	1.4	8	600	6
Basidiospores	119	9520	89.8	524	41900	95.1	114	9120	91.2
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	1	80	0.8	7	600	1.4	2	200	2
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	1	80	0.2	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	2	200	0.5	-	-	-
Myxomycetes++	-	-	-	2*	80*	0.2	1	80	0.8
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Pestalotia/Pestalotiopsis	-	-	-	-	-	-	-	-	-
Yeast	4	300	2.8	-	-	-	-	-	-
Total Fungi	133	10600	100	551	44060	100	125	10000	100
Hyphal Fragment	-	-	-	-	-	-	1*	40*	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	80	-	-	80	-	-	80	-
Analyt. Sensitivity 300x	-	40*	-	-	40*	-	-	40*	-
Skin Fragments (1-4)	-	2	-	-	3	-	-	2	-
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.

Vincent Iuzzolino, M.S., Laboratory Director
or other Approved Signatory

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

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For information on the fungi listed in this report, please visit the Resources section at www.emsl.com



Environmental Microbiology Chain of Custody

EMSL Order Number (Lab Use Only):

372017161

Westmont, NJ
 107 Haddon Avenue
 Westmont, NJ 08108
 PHONE: (856) 858-4800
 FAX: (856) 858-4960

Company: Epic Environmental Services, LLC		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 1930 Brown Road		<i>Third Party Billing requires written authorization from third party</i>	
City/State/Zip: Newfield, NJ 08344			
Report To (Name): James Eberts		Fax: 856-205-0413	
Telephone: 856-205-1077		Email Address: jeberts@epicenviro.com	
Project Name/Number: Main RD ES Full IAQ			
Please Provide Results: Email		Purchase Order: 20-3198	State Samples Taken: NJ
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour
<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input checked="" type="checkbox"/> 1 Week	<input type="checkbox"/> 2 Week
<i>*Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. TATs are subject to methodology requirements</i>			
Non Culturable Air Samples (Spore Traps)			
<ul style="list-style-type: none"> • M001 Air-O-Cell • M049 BioSIS • M030 Micro 5 	<ul style="list-style-type: none"> • M173 Alegro M2 • M003 Burkard • M174 MoldSnap 	<ul style="list-style-type: none"> • M004 Allergenco • M043 Cyclax • M176 Rolle Smart 	<ul style="list-style-type: none"> • M032 Allergenco-D • M002 Cyclax-d • M130 Via-Cell
Other Microbiology Test Codes			
<ul style="list-style-type: none"> • M041 Fungal Direct Examination • M005 Viable Fungi ID and Count • M006 Viable Fungi ID and Count (Speciation) • M007 Culturable Fungi • M008 Culturable Fungi (Speciation) • M009 Gram Stain Culturable Bacteria • M010 Bacterial Count and ID - 3 Most Prominent • M011 Bacterial Count and ID - 5 Most Prominent • M013 Sewage Contamination in Buildings 	<ul style="list-style-type: none"> • M014 Endotoxin Analysis • M015 Heterotrophic Plate Count • M100 Real Time Q-PCR-ERMI 36 Panel • M018 Total Coliform (Membrane Filtration) • M020 Fecal Streptococcus (Membrane Filtration) • M210-215 Legionella Detection • M026 Recreational Water Screen • M027 Mycotoxin Analysis 	<ul style="list-style-type: none"> • M029 Enterococci • M019 Fecal Coliform • M133 MRSA Analysis • M028 Cryptococcus neoformans Detection • M120 Histoplasma capsulatum Detection • M033-39 Allergen Testing • M044 Group Allergen (Cat, Dog, Cockroach, Dustmites) • Other See Analytical Price Guide 	
Preservation Method (Water):			
Name of Sampler: Tim Eberts		Signature of Sampler: <i>[Signature]</i>	
Sample #	Sample Location	Sample Type	Test Code
M-01	Outside	AIR	M030
M-02	Rm 6	↓	↓
M-03	Rm 21	↓	↓
M-04	Rm 12	↓	↓
M-05	Rm 54	↓	↓
M-06	Rm 36	↓	↓
Client Sample # (s): M-01 - M-06		Total # of Samples: 16	
Relinquished (Client): <i>[Signature]</i>		Date: 10/15/20	Time: 1:25
Received (Client): <i>[Signature]</i>		Date: 10-15-20	Time: 1:00
Comments/Special Instructions:			

RECEIVED
 EMSL
 CINNAMINSON, NJ
 20 OCT 15 PM 1:02



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Laboratory ID: 100194

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

- | | |
|--|--|
| <input checked="" type="checkbox"/> INDUSTRIAL HYGIENE | Accreditation Expires: November 01, 2020 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL LEAD | Accreditation Expires: November 01, 2020 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: November 01, 2020 |
| <input type="checkbox"/> FOOD | Accreditation Expires: |
| <input type="checkbox"/> UNIQUE SCOPES | Accreditation Expires: |

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Elizabeth Bair

Elizabeth Bair
Chairperson, Analytical Accreditation Board

Cheryl O. Morton

Cheryl O. Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 17 – 09/11/2018

Date Issued: 11/30/2018