



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**  
**Janvier 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 Janvier 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**

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

The following rooms/areas were inspected:

Room 17, Room 20, Room 15, Room 14, Room 10

## **Observations, Comments, and Recommendations**

### **Weather Conditions: Clear, 63° Fahrenheit, 52% Relative Humidity**

#### **Room 17**

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 Myxomycetes mold spore concentrations were elevated.  
Elevated airborne mold spores are not by themselves an indicator of active mold growth.  
It is recommended to operate an air scrubber in the room to filter residual airborne mold spores.

#### **Room 20**

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 15**

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 14**

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 10**

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 Myxomycetes mold spore concentrations were elevated in Room 17. All other locations had an airborne mold spore concentration near or below background (outside) concentrations.

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 <sup>3</sup> )	
	Total	Individual Mold Concentrations
Room 17	10000	Ascospores 400
		Aspergillus/Penicillium 200
		Basidiospores 5800
		Cladosporium 200
		Myxomycetes 3400
Room 20	8300	Ascospores 200
		Basidiospores 6900
		Cladosporium 600
		Myxomycetes 600
Room 15	6480	Aspergillus/Penicillium 80
		Basidiospores 5900
		Cladosporium 500
Room 14	7060	Ascospores 200
		Basidiospores 6500
		Cladosporium 80
		Myxomycetes 200
		Rust 80
Room 10	8660	Aspergillus/Penicillium 80
		Basidiospores 7700
		Cladosporium 880
Outside	18880	Ascospores 300
		Basidiospores 17200
		Cladosporium 600
		Curvularia 80
		Ganoderma 200
		Aspergillus 300
		Peronospora 80
		Polythrincium 80
		Pyricularia 40

- 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 Myxomycetes mold spore concentrations were elevated in Room 17. All other locations had an airborne mold spore concentration near 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](mailto:cinnmicrolab@emsl.com)

EMSL Order: 372017159  
 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:** 10/20/2020

**Project:** Janvier ES Fall IAQ

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

Lab Sample Number:	372017159-0001			372017159-0002			372017159-0003		
Client Sample ID:	J-01			J-02			J-03		
Volume (L):	25			25			25		
Sample Location:	Outside			Rm. 17			Rm. 20		
Spore Types	Raw Count	Count/m <sup>3</sup>	% of Total	Raw Count	Count/m <sup>3</sup>	% of Total	Raw Count	Count/m <sup>3</sup>	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	4	300	1.6	5	400	4	2	200	2.4
Aspergillus/Penicillium	-	-	-	2	200	2	-	-	-
Basidiospores	215	17200	91.1	72	5800	58	86	6900	83.1
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	8	600	3.2	3	200	2	7	600	7.2
Curvularia	1	80	0.4	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	2	200	1.1	-	-	-	-	-	-
Myxomycetes++	-	-	-	43	3400	34	7	600	7.2
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Aspergillus	7*	300*	1.6	-	-	-	-	-	-
Peronospora	1	80	0.4	-	-	-	-	-	-
Polythrincium	2*	80*	0.4	-	-	-	-	-	-
Pyricularia	1*	40*	0.2	-	-	-	-	-	-
<b>Total Fungi</b>	<b>241</b>	<b>18880</b>	<b>100</b>	<b>125</b>	<b>10000</b>	<b>100</b>	<b>102</b>	<b>8300</b>	<b>100</b>
Hyphal Fragment	2	200	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	80	-	-	80	-	-	80	-
Analyt. Sensitivity 300x	-	40*	-	-	40*	-	-	40*	-
Skin Fragments (1-4)	-	1	-	-	3	-	-	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.

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

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

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 03:43 PM

For information on the fungi listed in this report, please visit the Resources section at [www.emsl.com](http://www.emsl.com)



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EMSL Order: 372017159  
Customer ID: EPIC62  
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**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  
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**Analyzed Date:** 10/20/2020

**Project:** Janvier ES Fall IAQ

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

Lab Sample Number:	372017159-0004			372017159-0005			372017159-0006		
Client Sample ID:	J-04			J-05			J-06		
Volume (L):	25			25			25		
Sample Location:	Rm. 15			Rm. 14			Rm. 10		
Spore Types	Raw Count	Count/m <sup>3</sup>	% of Total	Raw Count	Count/m <sup>3</sup>	% of Total	Raw Count	Count/m <sup>3</sup>	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	2	200	2.8	-	-	-
Aspergillus/Penicillium	1	80	1.2	-	-	-	1	80	0.9
Basidiospores	74	5900	91	81	6500	92.1	96	7700	88.9
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	6	500	7.7	1	80	1.1	11	880	10.2
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	2	200	2.8	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	1	80	1.1	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Aspergillus	-	-	-	-	-	-	-	-	-
Peronospora	-	-	-	-	-	-	-	-	-
Polythrincium	-	-	-	-	-	-	-	-	-
Pyricularia	-	-	-	-	-	-	-	-	-
<b>Total Fungi</b>	<b>81</b>	<b>6480</b>	<b>100</b>	<b>87</b>	<b>7060</b>	<b>100</b>	<b>108</b>	<b>8660</b>	<b>100</b>
Hyphal Fragment	1	80	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	80	-	-	80	-	-	80	-
Analyt. Sensitivity 300x	-	40*	-	-	40*	-	-	40*	-
Skin Fragments (1-4)	-	2	-	-	2	-	-	3	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	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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Initial report from: 10/21/2020 03:43 PM

For information on the fungi listed in this report, please visit the Resources section at [www.emsl.com](http://www.emsl.com)



# Environmental Microbiology Chain of Custody

**EMSL Order Number (Lab Use Only):**

372017189

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

<b>Company:</b> Epic Environmental Services, LLC		<b>EMSL-Bill to:</b> <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments** Third Party Billing requires written authorization from third party</small>			
<b>Street:</b> 1930 Brown Road					
<b>City/State/Zip:</b> Newfield, NJ 08344					
<b>Report To (Name):</b> James Eberts		<b>Fax:</b> 856-205-0413			
<b>Telephone:</b> 856-205-1077		<b>Email Address:</b> jeberts@epicenviro.com			
<b>Project Name/Number:</b> Janvie ES Fall 1A2					
<b>Please Provide Results:</b> Email		<b>Purchase Order:</b> 20-3198	<b>State Samples Taken:</b> NJ		
<b>Turnaround Time (TAT) Options* - Please Check</b>					
<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					
<small>*Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. TATs are subject to methodology requirements</small>					
<b>Non Culturable Air Samples (Spore Traps)</b>					
<ul style="list-style-type: none"> <li>• M001 Air-O-Cell</li> <li>• M049 BioSIS</li> <li>• M030 Micro 5</li> </ul>	<ul style="list-style-type: none"> <li>• M173 Allegro M2</li> <li>• M003 Burkard</li> <li>• M174 MoldSnap</li> </ul>	<ul style="list-style-type: none"> <li>• M004 Allergenco</li> <li>• M043 Cyclax</li> <li>• M176 Relle Smart</li> </ul>	<ul style="list-style-type: none"> <li>• M032 Allergenco-D</li> <li>• M002 Cyclax-d</li> <li>• M130 Via-Cell</li> </ul>		
<b>Other Microbiology Test Codes</b>					
<ul style="list-style-type: none"> <li>• M041 Fungal Direct Examination</li> <li>• M005 Viable Fungi ID and Count</li> <li>• M006 Viable Fungi ID and Count (Speciation)</li> <li>• M007 Culturable Fungi</li> <li>• M008 Culturable Fungi (Speciation)</li> <li>• M009 Gram Stain Culturable Bacteria</li> <li>• M010 Bacterial Count and ID - 3 Most Prominent</li> <li>• M011 Bacterial Count and ID - 5 Most Prominent</li> <li>• M013 Sewage Contamination in Buildings</li> </ul>	<ul style="list-style-type: none"> <li>• M014 Endotoxin Analysis</li> <li>• M015 Heterotrophic Plate Count</li> <li>• M100 Real Time Q-PCR-ERMI 36 Panel</li> <li>• M018 Total Coliform (Membrane Filtration)</li> <li>• M020 Fecal Streptococcus (Membrane Filtration)</li> <li>• M210-215 Legionella Detection</li> <li>• M026 Recreational Water Screen</li> <li>• M027 Mycotoxin Analysis</li> </ul>	<ul style="list-style-type: none"> <li>• M029 Enterococci</li> <li>• M019 Fecal Coliform</li> <li>• M133 MRSA Analysis</li> <li>• M028 Cryptococcus neoformans Detection</li> <li>• M120 Histoplasma capsulatum Detection</li> <li>• M033-39 Allergen Testing</li> <li>• M044 Group Allergen (Cat, Dog, Cockroach, Dustmites)</li> <li>• Other See Analytical Price Guide</li> </ul>			
<b>Preservation Method (Water):</b>					
<b>Name of Sampler:</b> Tim Eberts		<b>Signature of Sampler:</b>			
<b>Sample #</b>	<b>Sample Location</b>	<b>Sample Type</b>	<b>Test Code</b>	<b>Volume/Area</b>	<b>Date/Time Collected</b>
J-01	Outside	AIR	M030	25L <sup>5L/m</sup> 5m	10/14/20 1104
J-02	Rm 17	↓	↓	↓	1120
J-03	Rm 20	↓	↓	↓	1127
J-04	Rm 15	↓	↓	↓	1134
J-05	Rm 14	↓	↓	↓	1140
J-06	Rm 10	↓	↓	↓	1147
<b>Client Sample # (s):</b> J-01 - J-06		<b>Total # of Samples:</b> 6			
<b>Relinquished (Client):</b>		<b>Date:</b> 10/15/20	<b>Time:</b> 1250		
<b>Received (Client):</b>		<b>Date:</b> 10-15-20	<b>Time:</b> 1:02		
<b>Comments/Special Instructions:</b>					

RECEIVED  
 EMSL  
 CAMDEN, 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](http://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