

March 12, 2018

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

RE: Indoor Air Quality Inspection Report Janvier Elementary School Epic Project No. 18-1003

Dear Mr. Rambone:

Epic Environmental Services, LLC (Epic) was retained by the Franklin Township Board of Education (District) to perform an indoor air quality inspection at the Janvier Elementary School. The investigation consisted of a visual inspection and the collection of temperature, relative humidity, and carbon dioxide data.

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

Temperature, relative humidity, and carbon dioxide data was compared to current New Jersey Indoor Air Quality and industry standards.

Epic Environmental performed the inspection on February 28, 2018.

Acceptable Temperature, Relative Humidity, and Carbon Dioxide Criteria

Acceptable Indoor Temperature Range:

68° - 79° Fahrenheit

Carbon Dioxide Trigger Level for Corrective Action:

1,000 ppm

Ideal Relative Humidity Range:

30-60%

The following rooms/areas were inspected: Main Office Suite, Room 47, Room 33, Room 31, Library, Room 16, Room 23, Custodian's Office, All Purpose Room, and Room 4.

Franklin Township Board of Education Indoor Air Quality Inspection Report Janvier Elementary School Epic Project No. 18-1003 March 12, 2018 Page 2

Observations

Main Office Suite

Slight dust buildup on air supply registers and surrounding ceiling tile

Room 47

No issues

Room 33

Carbon dioxide levels above 1,000 ppm (1010 ppm). Room was occupied.

Room 31

No issues

Library

Slight dust buildup on air supply registers.

Room 16

No issues

Room 23

No issues

Custodian's Office

No issues

All Purpose Room

Slight dust buildup on air supply registers.

Room 4

No issues

Recommendations

- Dust build-up was observed on air supply registers in the Main Office, Library, and All Purpose Room These registers should be cleaned and put on a routine cleaning schedule.
- Carbon dioxide concentrations were elevated in Room 33. Fresh air must be increased to assure that carbon dioxide concentrations remain below 1,000 ppm.
- Air samples for mold were collected in several areas in the school. Airborne mold concentrations were near or below outside (background) levels.

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

James J. Eleuts

HEALTH SAFETY ENVIRONMENT

Franklin Township Board of Education Indoor Air Quality Inspection Report Janvier Elementary School Epic Project No. 18-1003 March 12, 2018

Sample Data Summary Air Sampling

Air Samples

February 28, 2018

Air Sample Location	tion Airborne Mold Concentrations (
	Total	Individual Mold Concentrations					
Outside by Front Entrance	7,280	Ascospores Aspergillus/Penicillium Basidiospores Cladosporium Epicoccum	500 300 5,400 1,000 80				
Library/Media Center	1,000	Aspergillus/Penicillium Basidiospores Cladosporium	200 600 200				
APR – near Stage	1,160	Ascospores Aspergillus/Penicillium Basidiospores Cladosporium Fusarium	80 200 600 200 80				
Room 4	1,160	Basidiospores Cladosporium Arthrinium	1,000 80 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.



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077 Phone/Fax: (800) 220-3675 / (856) 786-0262 http://www.EMSL.com / cinnmicrolab@emsl.com Order ID: Customer ID: Customer PO:

371803829 EPIC62 18-1003

Project ID:

Attn: James Eberts

Epic Environmental Services, LLC

1930 Brown Road Newfield, NJ 08344 Phone: Fax: (856) 205-1077 (856) 205-0413

Collected:

02/28/2018

Received:

03/01/2018

Analyzed:

03/06/2018

Proj: Franklin Twp BOE - IAQ Inspection - Janvier ES

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

Lab Sample Number: Client Sample ID: Volume (L): Sample Location:		71803829-0001 JES-01 25 side - By Front E	Ent	371803829-0002 JES-02 25 Media Center/Library		371803829-0003 JES-03 25 APR - Near Stage			
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria	-	-		- 1		-	- 1	-	
Ascospores	6	500	6.9	-	-	-	1	80	6.9
Aspergillus/Penicillium	4	300	4.1	2	200	20	2	200	17.2
Basidiospores	68	5400	74.2	8	600	60	7	600	51.7
Bipolaris++	-	alla da e di da c	310034003			-		-04	
Chaetomium	-	-	-	-	•	- -	**************************************	<u> </u>	-
Cladosporium	13	1000	13.7	2	200	20	2	200	17.2
Curvularia	-	-	-	•	-	-	-	-	-
Epicoccum	1	80	1.1	-	-	-			
Fusarium	-	-	-	-	51 254 56 11271 (4 LBC 4 LBC 8 5) 51 51 51 54 55 55 52 53 -	-	1	80	6.9
Ganoderma	-			-	-	-	-	250	
Myxomycetes++	-	-	-	• 12 CONTRACTOR 12 CONTRACTOR 13 CONTRACTO	#	-	-	-	
Pithomyces	-		BBB (-135)		- 11 Sept.	-		135425000	
Rust	-	-	-	-	•	-	-	-	-
Scopulariopsis		-		-	11-4-5-4	-	-		
Stachybotrys	-	-	-	-		-	-	-	-
Torula				-		-	-	-	
Ulocladium	•	-	-	-	eronnonia	-	-	-	
Unidentifiable Spores		-		-	<u> -</u>	-			6 00000 - 1000
Zygomycetes	•	-		#	-	-	•		
Arthrinium									
Total Fungi	92	7280	100	12	1000	100	13	1160	100
Hyphal Fragment			- 3		-	-	1	80	
Insect Fragment	-		-	-	-	-	-	-	
Pollen	2*	80*	-	-	-124	-			
Analyt. Sensitivity 600x	-	80	-	-	80	- 35		80	
Analyt. Sensitivity 300x		40*	-	- 14	40*	-		40*	
Skin Fragments (1-4)	•	1	-	-	2	-	-	2	-
Fibrous Particulate (1-4)	- 1	1	100 S.4 TSSM		1			2	
Background (1-5)	-	1	-		2	-		2	-

Bipolaris++ = Bipolaris/Drechslera/Exserohilum Myxomycetes++ = Myxomycetes/Periconia/Smut

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

Vouent Inggolio

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

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. EMSL maintains liability limited to cost of analysis. 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. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

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

Initial report from: 03/06/2018 15:00:05



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Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	3	71803829-0004 JES-04 25 Room 4								
Spore Types	Raw Count	Count/m³	% of Total			4	**			
Alternaria	- 1	-	1 -		i i					
Ascospores	•	-	-							
Aspergillus/Penicillium	-		- 100							
Basidiospores	13	1000	86.2							
Bipolaris++	-	•	A DESCRIPTION				-			
Chaetomium	-	=	-				"	***************************************		
Cladosporium	1	80	6.9							
Curvularia	-	-	-							
Epicoccum			100 - 00							
Fusarium	-	-	-				-			
Ganoderma			Maria - 1884 -							
Myxomycetes++	-	-	-							
Pithomyces		-	-							
Rust	-	-	- 1				***			
Scopulariopsis	-		- 100 m							
Stachybotrys	-	-	-							
Torula	1786 - 1886 <u>-</u>		- 35							
Ulocladium	-	-	-							
Unidentifiable Spores			- 11							
Zygomycetes	-	-	-							
Arthrinium	1	80	6.9							
Total Fungi	15	1160	100				×			
Hyphal Fragment	- 1	-								
Insect Fragment	-	-	-							
Pollen			-							
Analyt. Sensitivity 600x	-	80	-	4		-	-			
Analyt. Sensitivity 300x	1000 - 1000 E	40*	150 - 60							
Skin Fragments (1-4)		3	-				···			
Fibrous Particulate (1-4)		1								
Background (1-5)	-	1	-							

Bipolaris++ = Bipolaris/Drechslera/Exserohilum Myxomycetes++ = Myxomycetes/Periconia/Smut

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

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

Initial report from: 03/06/2018 15:00:05



Environmental Microbiology Chain of Custody EMSL Order Number(Lab Use Only):

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

			100			
Company: Epic Er	nvironmental Services, Ll	LC			-Bill to: Sam	
Street: 1930 Brown	n Road		Third I		Milerent note instructi Equires written au	ons in Comments** thorization from third party
City/State/Zip: Ne	wfield, NJ 08344					
Report To (Name)	: James Eberts		Fax: 85	6-205-0413		
Telephone: 856-20			Email A	ddress: je	berts@epicen	viro.com
Project Name/Nun	nber: Franklin Twp B	OE - IAQ In:	spection -	Danuis	189	
Please Provide Re		se Order: 1			imples Taken:	w S
	Tuma	round Time (T	AT) Options*	- Please Ch	ick \/	
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	James Eberts		Signati Sample	are of Sampl	or Jane	
Sample #	Sample Location		Тура	Code	/Volume/Area	Date/Time Collected
JES-01 JES-03 JES-03 JES-04	Media Center APR-Near S Room 4 End of Sam	Tuge	#	mo30	15L 15L 15C 254	1134
Client Sample # (s): Relinquished (Client) Received (Client):	JES-01-> Jan fl/+ FON TV	94	Date: 3	al Foil Sami	Dios: Time:	4) 53 0 153 0
Comments/Specia	Instructions:					



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Laboratory ID: 100194

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

LABORATORY ACCREDITATION PROGRAMS

- INDUSTRIAL HYGIENE
 - **ENVIRONMENTAL LEAD**
- ENVIRONMENTAL MICROBIOLOGY
- UNIQUE SCOPES
- Accreditation Expires: September 01, 2018 Accreditation Expires: September 01, 2018
- Accreditation Expires: September 01, 2018
 - Accreditation Expires:

Accreditation Expires:

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-Cheng G. Charten LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is

William Walsh, CIH

Chairperson, Analytical Accreditation Board

Revision 15: 03/30/2016

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

Date Issued: 08/31/2016