

November 8, 2021

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

RE: Indoor Air Quality Inspection Report – September 2021 Reutter Elementary School Epic Project No. 21-3270

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 Reutter 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 September 15, 2021.

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 1, Room 11, Room 17, Room 29, Room 55

Franklin Township Board of Education Indoor Air Quality Inspection Report – September 2021 Reutter Elementary School Epic Project No. 21-3270 November 8, 2021

Observations, Comments, and Recommendations

Weather Conditions: Cloudy, 73° Fahrenheit, 90% Relative Humidity

Room 1

No visible mold was observed.

No evidence of recent water intrusion was observed.

Relative humidity was elevated (66%). Temperature was within the acceptable range.

Airborne mold spore concentrations were near or below outside (background) concentrations. No action required at this time.

Room 11

Visible mold was observed on the closet door.

No evidence of recent water intrusion was observed.

Relative humidity was elevated (69%). Temperature was within the acceptable range.

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

Clean closet door using an EPA-approved fungicide designed to kill mold.

Room 17

No visible mold was observed.

No evidence of recent water intrusion was observed.

Relative humidity was elevated (74%). Temperature was within the acceptable range.

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

No action required at this time.

Room 29

Visible mold was observed on a wooden stool.

No evidence of recent water intrusion was observed.

Relative humidity was elevated (68%). Temperature was within the acceptable range.

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

Clean wooden stool using an EPA-approved fungicide designed to kill mold.

Room 55

No visible mold was observed.

No evidence of recent water intrusion was observed.

Relative humidity was elevated (70%). 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 (outside) concentrations in all areas.

See Sample Data Summary

Conclusions and General Recommendations

• Assure steps are taken to maintain a maximum relative humidity concentration of 60% during the summer months. This will reduce the overall probability of triggering mold activity.

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

Tele: 856.205.1077

Epic Environmental Services, LLC

James J. Eleuts

Fax: 856.205.0413

Franklin Township Board of Education Indoor Air Quality Inspection Report – September 2021 Reutter Elementary School Epic Project No. 21-3270 November 8, 2021

Sample Data Summary Air Sampling

Air Samples

September 15, 2021

All Samples	1	September 13,			
Air Sample Location	Airborne Mold Concentrations (spores/m³)				
	Total	Individual Mold Cond	centrations		
		Ascospores	80		
Room 1	24740	Basidiospores	24500		
		Ganoderma	80		
		Pithomyces++	80		
		Ascospores	400		
Room 11	26300	Aspergillus/Penicillium	200		
		Basidiospores	25400		
		Cladosporium	300		
		Basidiospores	6200		
Room 17	6600	Cladosporium	200		
		Curvularia	40		
		Ganoderma	80		
		Pithomyces++	80		
		Ascospores	80		
Room 29	17660	Basidiospores	17500		
		Cladosporium	80		
		Ascospores	1100		
Room 55	36700	Aspergillus/Penicillium	300		
		Basidiospores	34700		
		Cladosporium	200		
		Ganoderma	200		
		Unidentifiable Spores	200		
		Ascospores	3400		
Outside	125640	Basidiospores	120000		
		Cladosporium	1400		
		Curvularia	80		
		Ganoderma	300		
		Unidentifiable Spores	300		
		Bispora	80		
		Cercospora++	40		
		Nigrospora	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 mold spore concentrations were 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
 EMSL Order:
 372115635

 Customer ID:
 EPIC62

 Customer PO:
 21-3270

Project ID:

Phone: (856) 205-1077

Attention: James Eberts

Epic Environmental Services, LLC

80 Fork Bridge Road Pittsgrove, NJ 08318 Fax: (856) 205-0413
Collected Date: 09/15/2021
Received Date: 09/17/2021

Analyzed Date: 09/20/2021

Project: Delsea BOE - Reutter ES IAQ

			ores & Particu				-SOP-201, ASTI		
Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	R-01 25		372115635-0002 R-02 25 Room 11			372115635-0003 R-03 25 Room 17			
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Tota
Alternaria (Ulocladium)	- '	-	-	-	-	-	-	-	-
Ascospores	1	80	0.3	5	400	1.5	-	-	-
Aspergillus/Penicillium	-	-	-	2	200	0.8	-	-	-
Basidiospores	306	24500	99	317	25400	96.6	78	6200	93.9
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	4	300	1.1	2	200	3
Curvularia	-	-	-	-	-	-	1*	40*	0.6
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	1	80	0.3	-	-	-	1	80	1.2
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	2*	80*	0.3	-	-	-	1	80	1.2
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Bispora	-	-	-	-	-	-	-	-	-
Cercospora++	-	-	-	-	-	-	-	-	-
Nigrospora	-	-	-	-	-	-	-	-	-
Total Fungi	310	24740	100	328	26300	100	83	6600	100
Hyphal Fragment	1*	40*	-	-	-	-	1*	40*	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	80	-	-	80	-	-	80	-
Analyt. Sensitivity 300x	-	40*	-	-	40*	-	-	40*	-
Skin Fragments (1-4)	-	3	-	-	2	-	-	2	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	2	-
Background (1-5)	-	1	-	-	1	-	-	1	-

++ 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.

Vount Tuzzolio

Vincent luzzolino, 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.

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

Initial report from: 09/20/2021 06:09 PM



EMSL Analytical, Inc.

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Collected Date: 09/15/2021

Received Date: 09/17/2021

Analyzed Date: 09/20/2021

Project: Delsea BOE - Reutter ES IAQ

Test Report: M Lab Sample Number: Client Sample ID:	372115635-0004		lates by Optical Microscopy (Methods MICRO 372115635-0005 R-05		D-SOP-201, ASTM D7391) 372115635-0006 R-06				
Volume (L):		25		25		25			
Sample Location:		Room 29 Room 55			Outside by Front Ent				
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	1	80	0.5	14	1100	3	43	3400	2.7
Aspergillus/Penicillium	-	-	-	4	300	0.8	-	-	-
Basidiospores	219	17500	99.1	434	34700	94.6	1500	120000	95.5
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	1	80	0.5	3	200	0.5	18	1400	1.1
Curvularia	-	-	-	-	-	-	1	80	0.1
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	2	200	0.5	4	300	0.2
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	2	200	0.5	4	300	0.2
Zygomycetes	-	-	-	-	-	-	-	-	-
Bispora	-	-	-	-	-	-	1	80	0.1
Cercospora++	-	-	-	-	-	-	1*	40*	0
Nigrospora	-	-	-	-	-	-	1*	40*	0
Total Fungi	221	17660	100	459	36700	100	1573	125640	100
Hyphal Fragment	1	80	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	1	80	-	-	-	-
Analyt. Sensitivity 600x	-	80	-	-	80	-	-	80	-
Analyt. Sensitivity 300x	-	40*	-	-	40*	-	-	40*	-
Skin Fragments (1-4)	-	2	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	2	-

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

Voment Tuggolio

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

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

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Initial report from: 09/20/2021 06:09 PM

Environmental Microbiology Chain of Custody EMSL Order Number(Lab Use Only): 312-115635

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

Company: Epic Environmental Services, LLC EMSL-Bill to: ☑ Same Different								
Street: 1930 Brown Road			If Bill to is Different note instructions in Comments** Third Party Billing requires written authorization from third party					
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/Num	- PC -[-(P- P- 1)C -				EP 3			
Please Provide Res				nples Taken: M	J			
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	coordance with EMSL's Terms and Contitions I							
	Non Culturable A							
 MO01 Air-O-Cell MO49 BioSiS 	• M173 Alegro M2 • M004 A • M003 Burkard • M043 C	Mergenco	• M032 Alle • M002 Gyo	rgenco-D	• M172 Versa Kgo			
• 82030 Micro 5	1	ielie Smari	• M130 Via					
			Test Codes	- 				
Mo07 Culturable Fu Mo08 Culturable Fu Mo09 Gram Stain C Mo10 Bacterial Cou Prominent Mo11 Bacterial Cou Prominent Mo13 Sewage Con Preservation Method	iD and Count (Speciation) ID and Count (Speciation) ID and Count (Speciation) Ing (Speciati	etal Time Q- etal Colforn Membrane F ecal Strepto Membrane F 15 Leglonol Recreational Avodoxin An	Piste Court, PCR-ERMI 36 illitation) icoccus. illitation) ta Detection Water Screen talysis	Detection M120 Histo Detection M033-39 A M044 Grou [Cat, Cog, Other See	Il Colliform A Analysis Accecus neocomans plasme capsulatum Illeigen Testing p Alergen Cockroach, Dustrites) Analytical Price Guide			
Cfient Sample # (a):	R-0 -> R-06		Total # of Samp		58			
Retinquished (Client): James 8-12 Date: 9/17/2/ Time:								
Received (Ctient): Date: 9/17/21 Time: 1/73								
Comments/Special Instructions:								



AIHA Laboratory Accreditation Programs, LLC

acknowledges that EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077 Laboratory ID: LAP-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 17025:2017 international standard, General Requirements for the Competence of Testing and Calibration Laboratories in the following:

LABORATORY ACCREDITATION PROGRAMS

\checkmark	INDUSTRIAL HYGIENE	Accreditation Expires: November 01, 2022
\checkmark	ENVIRONMENTAL LEAD	Accreditation Expires: November 01, 2022
\checkmark	ENVIRONMENTAL MICROBIOLOGY	Accreditation Expires: November 01, 2022
	FOOD	Accreditation Expires:
	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 17025:2017 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.

Revision19: 09/01/2020

Cheryl o, Charten

Cheryl O Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC Date Issued: 10/31/2020