

March 30, 2022

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

RE: Indoor Air Quality Inspection Report – March 2022 Reutter Elementary School Epic Project No. 22-1032

Dear Mr. Zeck:

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 March 18, 2022.

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:

Library, Room 16, Room 11, Room 15, Art Room

Franklin Township Board of Education Indoor Air Quality Inspection Report – March 2022 Reutter Elementary School Epic Project No. 22-1032 March 30, 2022

Observations, Comments, and Recommendations

Weather Conditions: Sunny, 70° Fahrenheit, 60% Relative Humidity

Library

No visible mold was observed.

No evidence of recent water intrusion was observed.

Relative humidity was within normal range (53%). Temperature was within the acceptable range.

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

No action required at this time.

Room 16

No visible mold was observed.

No evidence of recent water intrusion was observed.

Relative humidity was within normal range (53%). 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

No visible mold was observed.

No evidence of recent water intrusion was observed.

Relative humidity was within normal range (53%). 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 normal range (53%). Temperature was within the acceptable range.

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

No action required at this time.

Art Room

No visible mold was observed.

No evidence of recent water intrusion was observed.

Relative humidity was within normal range (53%). 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

James J. Eleuts

Franklin Township Board of Education Indoor Air Quality Inspection Report – March 2022 Reutter Elementary School Epic Project No. 22-1032 March 30, 2022

Sample Data Summary Air Sampling

Air Samples

March 18, 2022

Air Sample Location	Airborne Mold Concentrations (spores/m³)					
	Total	Individual Mold Conc	entrations			
		Ascospores	200			
Library	3180	Basidiospores	2700			
		Cladosporium	200			
		Curvularia	80			
		Ascospores	80			
Room 16	7580	Aspergillus/Penicillium	200			
		Basidiospores	5200			
		Cladosporium	2100			
		Aspergillus/Penicillium	200			
Room 11	2880	Basidiospores	2600			
		Torula	80			
		Ascospores	80			
Room 15	3960	Aspergillus/Penicillium	80			
		Basidiospores	3600			
		Cladosporium	200			
Art Room	480	Basidiospores	400			
		Myxomycetes	80			
		Ascospores	600			
Outside	23800	Basidiospores	19800			
		Cladosporium	3400			

- 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:
 372204180

 Customer ID:
 EPIC62

 Customer PO:
 22-1032

Project ID:

Attention: James Eberts

Epic Environmental Services, LLC

80 Fork Bridge Road Pittsgrove, NJ 08318 **Phone:** (856) 205-1077 **Fax:** (856) 205-0413

 Collected Date:
 03/18/2022

 Received Date:
 03/21/2022

 Analyzed Date:
 03/22/2022

Project: Reutter IAQ

Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	: R-01 : 25			372204180-0002 R-02 25 Library			372204180-0003 R-03 25 Rm 16		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	7	600	2.5	2	200	6.3	1	80	1.1
Aspergillus/Penicillium	-	-	-	-	-	-	2	200	2.6
Basidiospores	248	19800	83.2	34	2700	84.9	65	5200	68.6
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	42	3400	14.3	3	200	6.3	26	2100	27.7
Curvularia	-	-	-	1	80	2.5	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Torula++	-	-	-	-	-	-	-	-	-
Total Fungi	297	23800	100	40	3180	100	94	7580	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	6	500	-	1	80	-	3	200	-
Analyt. Sensitivity 600x	-	80	-	-	80	-	-	80	_
Analyt. Sensitivity 300x	-	40*	-	-	40*	-	-	40*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	2	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	_	1	_	_	1			1	

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

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

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 particulates, prohibiting accurate detection and quantification. Present = Spores detected on 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.

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

Initial report from: 03/23/2022 01:12 PM



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
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80 Fork Bridge Road Pittsgrove, NJ 08318 **Phone:** (856) 205-1077 **Fax:** (856) 205-0413

Collected Date: 03/18/2022 Received Date: 03/21/2022 Analyzed Date: 03/22/2022

Project: Reutter IAQ

Test Report: M	icro-5(™) Analys	sis of Fungal Sp	ores & Particu	ılates by Optical	Microscopy (M	lethods MICRO	SOP-201, AST	M D7391)	
Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	R-04 25			3	72204180-0005 R-05 25 Rm 15		372204180-0006 R-06 25 Art Rm		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	- '	-	-	-	-	-
Ascospores	-	-	-	1	80	2	-	-	-
Aspergillus/Penicillium	2	200	6.9	1	80	2	-	-	-
Basidiospores	32	2600	90.3	45	3600	90.9	5	400	83.3
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	3	200	5.1	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	1	80	16.7
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Torula++	1	80	2.8	-	-	-	-	-	-
Total Fungi	35	2880	100	50	3960	100	6	480	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	1	80	-	-	-	-
Analyt. Sensitivity 600x	-	80	-	-	80	-	-	80	-
Analyt. Sensitivity 300x	-	40*	-	-	40*	-	-	40*	-
Skin Fragments (1-4)	-	2	-	-	2	-	-	2	-
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. Vouent Tuzzolio

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: 03/23/2022 01:12 PM

OrderID: 372204180



Microbiology Chain of Custody Form EMSL Order Number / Lab Use Only

72204180

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMAIL: CinnMicroLab@emsl.com

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	_	MICRO	BIOLOGY	TEST C	ODES							
M001-Arr-Q-Cell M174 MoldSnap		M012 Pseudomones	aeruginosa	(P/A***	")		M115 Sewage	Scree	n - Water (P/A	RE		
M030 Micro 5 M032 Allergenco-D		M024 Pseudomonas	aeruginosa	(MFT*))		M116 Sewage	Scree	ก - Water (MP <u>ที่ร</u> ั	₹ ≂		
M041 Fungal Direct Examination	-	M015 Helerotrophic	Plate Count				M117 Sewage	M117 Sewage Screen - Swab (P/A)				
M169 Pollen ID & Enumeration		M017 Total Coliform	& E Coli (0	Colifert F	P/A***)		M013 Sewage Screen - Swab (MFT)					
M280 Dust Characterization Level-1	M018 Total Coliform	18 Total Coliform & E. Coli. (MFT*) M730 Methicillin-resistant Staph, eureus. (MR3A)										
M281 Dust Characterization Level-2	M281 Dust Characterization Level-2 M114 Total Coliform & E. Co.				# Enumeration (Colitert MPN**) M031 Rapid-growing non-TB Mycobarderia Detection & Enumeration							
M005 Viable Fungl-Air Samples (Genus ID.&.Count)	-	M019 Fecal Coliform	(MFT*)	Enumeration #								
M006 Viable Fungi-Air Samples (Includes Penicillum, Aspergillus, Cladosporium, Stachybotrys Species ID & Count) M020 Fecal Streptococcus (I				M014 Endotoxin Analysis								
		M029 Enterococci (N	•	M044 Group Allergen (Cal, Dog, Cockroach, Dust Mite)								
M007 Culturable Fungi-Surface Samples (Genus ID		1	29 Enterococci (Enterolert P/A***) M095 Bacteroides 80 Real Time qPCR-ERMI 36 Panel Other - See Analytical Price Guide for Test Code							at Codo		
M008 Culturable Fungi-Surface Samples (Includes I Aspergillus, Cladosponum, Stachybotrys Species II	3.8 Count)	M180 Real Time qPCR-ERMI 36 Panel					1	-		I		
m025 Sewa			5 Sewage Screen - Water (MFT*) Legionella Analysis Please use EMSL Legionella CC T= Membrane Filtration Technique							egionella COC		
M009 Bacteria Count & IO. 3 Mark Services		,		•								
M010 Bacteria Count & ID - 3 Most Prominent M011 Bacteria Count & ID - 5 Most Prominent		***MPN = Most Probable Number ***P/A = Presence/Absence										
MOTT Bacteria Count & 10 - 5 Most Prominent		TIA - Tresender	Non			-						
Sample # Sample Location	/Description	Sample Type (Matrix)	Potable / Potable Wa		_	t Code	Volume/Area			Temperature (Lab Use Only)		
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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.

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

Cheryl O. Charton

Revision19: 09/01/2020

Date Issued: 10/31/2020