October 26, 2021

Ms. Margaret Durham
Facilities Manager
Delsea Regional High School District
Fries Mill Road
Franklinville, NJ 08322

RE: Indoor Air Quality Inspection Report – September 2021
Delsea High School
Epic Project No. 21-3309

Dear Ms. Durham:

Epic Environmental Services, LLC (Epic) was retained by the Delsea Regional High School District (District) to perform indoor air quality inspections for six randomly selected areas at the Delsea High 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 24, 2021. Air samples were collected October 4, 2021.

Acceptable Temperature, Relative Humidity

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

The following rooms/areas were inspected:

Rooms N107, N206, S208, S220, S107, W101B

Observations, Comments, and Recommendations

Room N107
No visible mold was observed.
No evidence of recent water intrusion was observed.
Relative humidity was within ideal range (57%). Temperature was within the acceptable range.
Airborne mold spore concentrations were near or below outside (background) concentrations.
No action required at this time.

Room N206
No visible mold was observed.
No evidence of recent water intrusion was observed.
Relative humidity was within ideal range (48%). Temperature was within the acceptable range.
Airborne mold spore concentrations were near or below outside (background) concentrations.
No action required at this time.

Room S208
No visible mold was observed.
No evidence of recent water intrusion was observed.
Relative humidity was within ideal range (44%). Temperature was within the acceptable range.
Airborne mold spore concentrations were near or below outside (background) concentrations.
No action required at this time.

Room S220
No visible mold was observed.
No evidence of recent water intrusion was observed.
Relative humidity was within ideal range (44%). Temperature was within the acceptable range.
Airborne mold spore concentrations were near or below outside (background) concentrations.
No action required at this time.

Room S107
No visible mold was observed.
No evidence of recent water intrusion was observed.
Relative humidity was within ideal range (47%). Temperature was within the acceptable range.
Airborne mold spore concentrations were near or below outside (background) concentrations.
No action required at this time.

Room W101B
No visible mold was observed.
No evidence of recent water intrusion was observed.
Relative humidity was within ideal range (47%). 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 area inspected. Airborne mold spore concentrations were near or below background (outside) concentrations.

See Sample Data Summary

Conclusions

- Assure steps are taken to maintain relative humidity to a maximum of 60% during the summer cooling season. Although most mold activity is not likely to start until extended periods of 75% or higher relative humidity are experienced, it is recommended to have the goal of 60%.

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 4, 2021

Air Sample Location	Airborne Mold Concentrations (spores/m³)		
	Total	Individual Mold Concentrations	
Room N-107	300	Basidiospores	300
Room N-206	620	Aspergillus/Penicillium	300
		Basidiospores	80
		Cladosporium	40
		Myxomycetes	80
		Pithomyces	40
		Rust	80
Room S-208	1100	Aspergillus/Penicillium	200
		Basidiospores	500
		Bipolaris	40
		Cladosporium	200
		Pithomyces	80
		Cercospora	80
Room S-220	280	Aspergillus/Penicillium	80
		Basidiospores	200
Room S-107	2100	Aspergillus/Penicillium	200
		Basidiospores	1400
		Cladosporium	80
		Myxomycetes	80
		Rust	40
		Paecilomyces	300
Room W-101B	3980	Aspergillus/Penicillium	1300
		Basidiospores	1900
		Cladosporium	300
		Myxomycetes	200
		Pithomyces	40
		Rust	200
		Pestalotia	40
Outside	14220	Alternaria	80
		Ascospores	800
		Aspergillus/Penicillium	400
		Basidiospores	8240
		Cladosporium	2400
		Curvularia	80
		Fusarium	80
		Ganoderma	200
		Myxomycetes	200
		Rust	500
		Pyricularia	200
		Spegazzinia	40

- Total mold counts found in **green** indicate a total airborne mold level NEAR or BELOW the outside (background) level.
- 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: 372116978
Customer ID: EPIC62
Customer PO:
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: 10/04/2021
Received Date: 10/05/2021
Analyzed Date: 10/12/2021

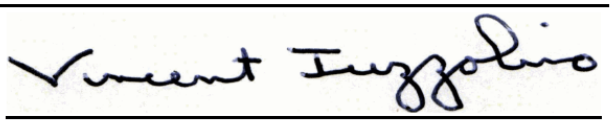
Project: Delsea High School IAQ

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

Lab Sample Number:	372116978-0001			372116978-0002			372116978-0003		
Client Sample ID:	H-01			H-02			H-03		
Volume (L):	25			25			25		
Sample Location:	N-107			N-206			S-208		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	4	300	48.4	3	200	18.2
Basidiospores	4	300	100	1	80	12.9	6	500	45.5
Bipolaris++	-	-	-	-	-	-	1*	40*	3.6
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	1*	40*	6.5	2	200	18.2
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	1	80	12.9	-	-	-
Pithomyces++	-	-	-	1*	40*	6.5	1	80	7.3
Rust	-	-	-	1	80	12.9	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Cercospora++	-	-	-	-	-	-	1	80	7.3
Paecilomyces++	-	-	-	-	-	-	-	-	-
Pestalotia++	-	-	-	-	-	-	-	-	-
Pyricularia	-	-	-	-	-	-	-	-	-
Spegazzinia	-	-	-	-	-	-	-	-	-
Total Fungi	**4**	**300**	**100**	**9**	**620**	**100**	**14**	**1100**	**100**
Hyphal Fragment	1	80	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	80	-	-	80	-	-	80	-
Analyt. Sensitivity 300x	-	40*	-	-	40*	-	-	40*	-
Skin Fragments (1-4)	-	2	-	-	3	-	-	3	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	3	-	-	3	-	-	3	-

++ 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

Initial report from: 10/12/2021 07:44 PM

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

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Analyzed Date: 10/12/2021

Project: Delsea High School IAQ

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

Lab Sample Number:	372116978-0004			372116978-0005			372116978-0006		
Client Sample ID:	H-04			H-05			H-06		
Volume (L):	25			25			25		
Sample Location:	S-220			S-107			W-101B		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	1	80	28.6	2	200	9.5	16	1300	32.7
Basidiospores	2	200	71.4	18	1400	66.7	24	1900	47.7
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	1	80	3.8	4	300	7.5
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	1	80	3.8	3	200	5
Pithomyces++	-	-	-	-	-	-	1*	40*	1
Rust	-	-	-	1*	40*	1.9	5*	200*	5
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Cercospora++	-	-	-	-	-	-	-	-	-
Paecilomyces++	-	-	-	4	300	14.3	-	-	-
Pestalotia++	-	-	-	-	-	-	1*	40*	1
Pyricularia	-	-	-	-	-	-	-	-	-
Spegazzinia	-	-	-	-	-	-	-	-	-
Total Fungi	**3**	**280**	**100**	**27**	**2100**	**100**	**54**	**3980**	**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	-	-	2	-	-	2	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	2	-	-	3	-

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

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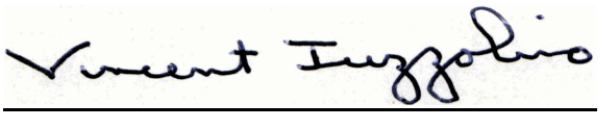

Vincent Iuzzolino, M.S., Laboratory Director
or other Approved Signatory

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. 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 Accredited #100194

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Project: Delsea High School IAQ

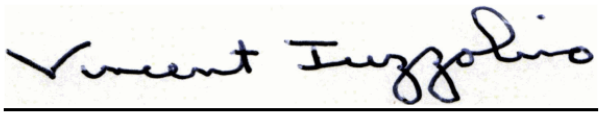
Test Report: Micro-5(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number:	**372116978-0007**		
Client Sample ID:	**H-07**		
Volume (L):	**25**		
Sample Location:	**Outside**		

Spore Types	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	1	80	0.6
Ascospores	10	800	5.6
Aspergillus/Penicillium	5	400	2.8
Basidiospores	103	8240	57.9
Bipolaris++	-	-	-
Chaetomium++	-	-	-
Cladosporium	43	3400	23.9
Curvularia	1	80	0.6
Epicoccum	-	-	-
Fusarium++	1	80	0.6
Ganoderma	2	200	1.4
Myxomycetes++	2	200	1.4
Pithomyces++	-	-	-
Rust	6	500	3.5
Scopulariopsis/Microascus	-	-	-
Stachybotrys/Memnoniella	-	-	-
Cercospora++	-	-	-
Paecilomyces++	-	-	-
Pestalotia++	-	-	-
Pyricularia	3	200	1.4
Spegazzinia	1*	40*	0.3
Total Fungi	**178**	**14220**	**100**
Hyphal Fragment	2	200	-
Insect Fragment	1	80	-
Pollen	-	-	-
Analyt. Sensitivity 600x	-	80	-
Analyt. Sensitivity 300x	-	40*	-
Skin Fragments (1-4)	-	1	-
Fibrous Particulate (1-4)	-	1	-
Background (1-5)	-	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.



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Initial report from: 10/12/2021 07:44 PM

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Environmental Microbiology Chain of Custody

EMSL Analytical, Inc.

EMSL Order Number *(Lab Use Only)*: 372416978

RECEIVED
EMSL
Westmont, NJ 08108
PHONE: (856) 858-4800
21 OCT (856) 858-4096
07 AM 10:55

Company: Epic Environmental Services, LLC	**EMSL-Bill to:** ☑ Same ☐ Different If Bill to Is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 1930 Brown Road	
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: Delsea High School IAQ	
Please Provide Results: Email	**Purchase Order:** **State Samples Taken:** NJ

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour ☐ 6 Hour ☒ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. TATs are subject to methodology requirements.

Non Culturable Air Samples (Spore Traps)

• M001 Air-O-Cell	• M173 Allegro M2	• M004 Allergenco	• M032 Allergenco-D	• M172 Versa Trap
• M049 BioSIS	• M003 Burkard	• M043 Cyclex	• M002 Cyclex-d	
• M030 Micro 5	• M174 MoldSnap	• M176 Relle Smart	• M130 Via-Cell	

Other Microbiology Test Codes

• M041 Fungal Direct Examination	• M014 Endotoxin Analysis	• M029 *Enterococci*
• M005 Viable Fungi ID and Count	• M015 Heterotrophic Plate Count	• M019 Fecal Coliform
• M006 Viable Fungi ID and Count (Speciation)	• M160 Real Time Q-PCR-ERMI 36 Panel	• M133 MRSA Analysis
• M007 Culturable Fungi	• M018 Total Coliform (Membrane Filtration)	• M020 *Cryptococcus neoformans* Detection
• M008 Culturable Fungi (Speciation)	• M020 Fecal *Streptococcus* (Membrane Filtration)	• M120 *Histoplasma capsulatum* Detection
• M009 Gram Stain Culturable Bacteria	• M210-215 *Legionella* Detection	• M033-39 Allergen Testing
• M010 Bacterial Count and ID – 3 Most Prominent	• M026 Recreational Water Screen	• M044 Group Allergen (Cat, Dog, Cockroach, Dustmites)
• M011 Bacterial Count and ID – 5 Most Prominent	• M027 Mycotoxin Analysis	• Other See Analytical Price Guide
• M013 Sewage Contamination in Buildings		

Preservation Method (Water):

Name of Sampler: Tim Eberts **Signature of Sampler:**

Sample #	Sample Location	Sample Type	Test Code	Volume/Area	Date/Time Collected
H-01	N-107	A/B	M030	25L	10/4/21 1408
H-02	N-206				1416
H-03	S-208				1427
H-04	S-220				1434
H-05	S-107				1442
H-06	W-101B				1450
H-07	Outside	↓	↓	↓	↓ 1602

Client Sample # (s): H-01 - H-07 **Total # of Samples:** 7 ok

Relinquished (Client): **Date:** 10/5/21 **Time:** 1020

Received (Client): DB **Date:** 10/5/21 **Time:** 11[illegible]

Comments/Special Instructions:

1 WK

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

☑	INDUSTRIAL HYGIENE	Accreditation Expires: November 01, 2022
☑	ENVIRONMENTAL LEAD	Accreditation Expires: November 01, 2022
☑	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

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

Revision19: 09/01/2020

Date Issued: 10/31/2020