Limited Mold Assessment Rooms 1106,1107,1108,1109,1110

Treadway, David <treadwayd@lisd.net>

Thu 10/6/2022 3:10 PM

To: Deaton, Angela <deatona@lisd.net>;Beecher, Suzanne <beechers@lisd.net>

Cc: Ontiveros, Sara <ontiveross@lisd.net>;Hughes, Jason <hughesjk@lisd.net>;Jones, Steven <jonessa@lisd.net>;Sayers, Allen <sayersa@lisd.net>

Mrs. Deaton,

Good afternoon. I am sending this email to follow up with the results of the limited mold assessment that was requested by your campus for Rooms 1106-1110. The assessment was conducted on 9/29 and 9/30 by Ensolum LLC. It is typically assumed that the indoor spore levels in an area with filtered or air-conditioned air average below the outdoor levels. Data from the airborne mold/fungi sampling indicated that the total indoor concentration of mold/fungi was as follows: Room 1106 was 8.3%, Room 1107 was 7.1%, Room 1108 was 8%, Room 1109 was 21.4%, and Room 1110 was 9.7% of the outdoor levels. Utilizing this theory, the indoor concentrations are within the acceptable guidelines for areas with filtered or air-conditioned air at the time of the assessment. Even though the spore count is within an acceptable range, due to staff concerns in these rooms I am recommending that the carpet be replaced in these rooms with VCT. I would also recommend that the rooms be thoroughly cleaned and all plants and animals be removed. The full report will be available on the LISD website once it is received from the vendor. If you have any questions or any other environmental concerns, please feel free to reach out.

Sincerely, David Treadway

David Treadway LISD Environmental Coordinator Facility Services Department 469-948-7823



October 21, 2022

Lewisville Independent School District 1597 Edmonds Lane Lewisville, Texas 75067 Attn: Mr. David Treadway

Re: Limited Mold Assessment

Lewisville Learning Center – Rm. 1106, 1107,1108, 1109, and 1110

1601 S. Edmonds Lane Lewisville, TX 75067

Ensolum Proposal No. P01A1288171

Ensolum, LLC (Ensolum) was retained to perform limited mold assessment services within Rooms 1106, 1107,1108, 1109, and 1110 of Lewisville Learning Center, 1601 S. Edmonds Lane, Lewisville, TX 75067. Enclosed is the report, including analytical data.

Ensolum appreciates this opportunity to be of service and looks forward to our continued work together. Please contact the undersigned with any questions or concerns you may have.

Sincerely,

Clinton S. Jech

Mold Assessment Consultant

MAC1444

Darren G. Bowden

Principal

MAC0321 EXP: 2/15/2024

1.0 INTRODUCTION

Ensolum was retained by David Treadway, LISD, to complete a Limited Mold Assessment within Rooms 1106, 1107,1108, 1109, and 1110 of Lewisville Learning Center, 1601 S. Edmonds Lane, Lewisville, TX 75067. The purpose of this investigation was to determine if elevated concentrations of airborne fungal spores and structures were present within the above-referenced areas. Ensolum completed the on-site investigation on September 29, 2022. The Limited Mold Assessment was performed in response to a complaint of possible indoor air quality issues within specific areas.

2.0 PROCEDURE

Ensolum visually inspected accessible areas of Rooms 1106, 1107,1108, 1109, and 1110. Water damage was observed in the following locations:

	VISIBLE W	ATER DAMAGE
LOCATION	DATE	EXPLANATION
Classroom 1110	9/30/2022	Visible water damage was observed on 2 ceiling tiles on the perimeter wall, HVAC Filter/Return is dirty.

Following the inspection of potential water-damaged building materials, Ensolum conducted a moisture investigation in the identified areas to determine if nonvisible water-damaged materials and other building materials within the investigation area were present. The moisture investigation was completed with a GE Protimeter BLD5364 moisture meter on accessible porous and semi-porous building materials in each area of concern. At the time of investigation, monitored building materials did not exhibit elevated moisture concentrations in comparison with similar and non-affected building materials in the structure and standard scientific guidelines.

Representative Relative Humidity readings were collected and recorded using an Extech Instruments Humidity / Temperature Pen. Measurements recorded during the investigation are listed in the chart below:

TEMPERATURE,	RELATIVE HU	MIDITY & SPECI	FIC HUMIDITY	
LOCATION	DATE	Temperature: F	Relative Humidity	Specific Humidity
Classroom 1106	9/29/2022	77	36.0	49.0
Classroom 1107	9/29/2022	75	36.0	46.0
Classroom 1108	9/29/2022	74	34.0	42.0
Exterior Southeast Entry	9/29/2022	74	23.0	35.0
Classroom 1109	9/30/2022	74	34.0	46.0
Classroom 1110	9/30/2022	73	34.0	41.0
Exterior, Northwest Entry Door	9/30/2022	71	37.0	42.0

Area air samples were collected with Allergenco-D spore trap cassettes and analyzed for airborne fungal spores and structures. Samples were collected at a rate of 15 liters per minute. Indoor air sample(s) were collected for a five (5) minute period (75 liters) at a height of approximately five (5) feet above finished floor (AFF). Outdoor air samples were collected for a five (5) minutes period (75 liters) at a height of approximately five (5) feet above level ground. American Conference of Governmental Industrial Hygienists (ACGIH) guidelines were followed for the sample collection. Fungal air samples were collected in the following areas:

SPORE TRA	AP LOCATIONS
SAMPLE NUMBER	LOCATION
1	Exterior
2	Exterior
3	Room 126

3.0 RESULTS

Currently, there are no regulatory standards for airborne fungal contamination. Therefore, results of the fungal analysis are compared against scientific guidelines. Bioaerosol samples are evaluated by comparing the indoor samples against the outdoor sample. The same types of fungi should be found in both the indoor and outdoor samples.

Should higher fungal concentrations occur in the indoor sample(s) or complaint areas, this generally indicates there is a source of fungal growth in the area. The types of fungi are also evaluated-the same types/genus of fungi should be present in both the indoor/complaint and outdoor/non-complaint samples.

The results of the fungal air samples collected were evaluated. Air testing performed using spore traps found that airborne mold spores within the investigation area were considerably lower and were qualitatively like those measured outside of the building at the time the sampling was performed.

CONCLUSIONS

Based on ENSOLUM's limited assessment and the analytical results, it appears that the indoor air quality, as it relates to airborne fungi, was within recommended guidelines on the day of the assessment.

APPENDIX A ANALYTICAL RESULTS



Summary

2051 Valley View Lane

Farmers Branch, TX 75234 Phone: (972) 241-8460

TDLR License No.: LAB0117

AIHA EMPAT ID: 102577

Client: Ensolum, LLC Lab Job No.: 22F-11045 Project: Lewisville Learning Center Classrooms 1106 - 1110 Report Date: 10/02/2022

Project #: 01A1288171 Sample Date: 09/29/2022

Sample Type: Spore Trap, Non-cultured Spore Trap Type: Zefon - Air-O-Cell Test Method: Mold: MLQ - 0112 - Standard Profile Page 1 of 3

On 9/29/2022, four (4) samples were submitted by a representative of Ensolum, LLC (located at 2351 W. Northwest Hwy Suite #1203, Dallas, TX 75220) for Spore Trap, Non-cultured mold analysis. This report consists of three sections; a summary section, a data detail section, and an analytical notes section.

Volume (liters)	Sample Description	Identification	Concentration spores/cubic met		
75	Classroom 1106	Myxomycete / Periconia / Rust / Smut	360	56%	
		Aspergillus / Penicillium	93	15%	
		Hyphal / Spore Fragments - Dematiaceous	67	10%	
		Curvularia	40	6%	
		Ascospores	27	4%	
		Drechslera / Bipolaris / Helminthosporum / Exserohilum group	13	2%	
		Chaetomium	13	2%	
		Basidiospores	13	2%	
		Alternaria	13	2%	
		Total:	639	100%	
75	Classroom 1107	Aspergillus / Penicillium	293	54%	
		Myxomycete / Periconia / Rust / Smut	80	15%	
		Hyphal / Spore Fragments - Dematiaceous	53	10%	
		Cladosporium	40	7%	
		Curvularia	27	5%	
		Ascospores	27	5%	
		Pithomyces	13	2%	
		Basidiospores	13	2%	
		Total:	546	100%	
	(liters) 75	(liters) 75 Classroom 1106	(liters) 75 Classroom 1106 Myxomycete / Periconia / Rust / Smut Aspergillus / Penicillium Hyphal / Spore Fragments - Dematiaceous Curvularia Ascospores Drechslera / Bipolaris / Helminthosporum / Exserohilum group Chaetomium Basidiospores Alternaria Total: 75 Classroom 1107 Aspergillus / Penicillium Myxomycete / Periconia / Rust / Smut Hyphal / Spore Fragments - Dematiaceous Cladosporium Curvularia Ascospores Pithomyces Basidiospores	(liters)	



Summary

TDLR License No.: LAB0117 AIHA EMPAT ID: 102577

2051 Valley View Lane

Farmers Branch, TX 75234 Phone: (972) 241-8460

Client: Ensolum, LLC

Project: Lewisville Learning Center Classrooms 1106 - 1110

Project #: 01A1288171

Sample Type: Spore Trap, Non-cultured

Test Method: Mold: MLQ - 0112 - Standard Profile

Lab Job No.: 22F-11045

Report Date: 10/02/2022

Sample Date: 09/29/2022

Spore Trap Type: Zefon - Air-O-Cell

Page 2 of 3

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Sample Number	Volume (liters)	Sample Description	Identification	Concer spores/cu	ntration
3	75	Classroom 1108	Myxomycete / Periconia / Rust / Smut	160	26%
			Cladosporium	160	26%
			Aspergillus / Penicillium	147	24%
			Hyphal / Spore Fragments - Dematiaceous	80	13%
			Drechslera / Bipolaris / Helminthosporum / Exserohilum group	27	4%
			Curvularia	27	4%
			Ascospores	13	2%
			Total:	614	100%
4	75	Exterior, Southeast Entry 5	Cladosporium	3086	40%
		* See Analytical Notes report for	Aspergillus / Penicillium	2380	31%
		further details	Myxomycete / Periconia / Rust / Smut	1146	15%
			Hyphal / Spore Fragments - Dematiaceous	413	5%
			Alternaria	200	3%
			Ascospores	133	2%
			Basidiospores	93	1%
			Curvularia	67	<1%
			Cercospora / Pseudocercospora	40	<1%
			Nigrospora	27	<1%
			Ganoderma	27	<1%
			Spegazzinia	13	<1%
			Drechslera / Bipolaris / Helminthosporum / Exserohilum group	13	<1%
			Total:	7638	100%



Summary

TDLR License No.: LAB0117

2051 Valley View Lane

Project:

AIHA EMPAT ID: 102577

Farmers Branch, TX 75234 Phone: (972) 241-8460

Client: Ensolum, LLC

Lewisville Learning Center Classrooms 1106 - 1110

Project #: 01A1288171

Sample Type: Spore Trap, Non-cultured

Test Method: Mold: MLQ - 0112 - Standard Profile

Lab Job No.: 22F-11045

Report Date: 10/02/2022

Sample Date: 09/29/2022

Spore Trap Type: Zefon - Air-O-Cell

Page 3 of 3

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Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter
				31

This report shall not be reproduced except in full, without approval of the laboratory. Data contained in this test report relates only to the samples tested. This report does not express or imply interpretation of the results contained herein. Interpretation should be made by a qualified professional. Moody Labs assumes no responsibility for the manner in which these samples were collected or handled prior to being received at this laboratory. Volume, area, and/or weight is provided by the customer. Moody Labs assumes no responsibility for the qualifications of personnel performing sampling and/or interpretations of this data.

Elham Mohammadian Analyst(s):

Lab Director: Heather Lopez

Lab Director: Bruce Crabb

Thank you for choosing Moody Labs

Approved Signatory:

Approved Signatory:

Bene Coll

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Data Detail

2051 Valley View Lane

Client:

Farmers Branch, TX 75234 Phone: (972) 241-8460

Ensolum, LLC

Project: Lewisville Learning Center Classrooms 1106 - 1110

Project #: 01A1288171

Sample Type: Spore Trap, Non-cultured

Test Method: Mold: MLQ - 0112 - Standard Profile

TDLR License No.: LAB0117

AIHA EMPAT ID: 102577

Lab Job No.: 22F-11045 **Report Date**: 10/02/2022

Sample Date: 09/29/2022

Spore Trap Type: Zefon - Air-O-Cell

Sample ID:			1				2				3				
Location:			Classroo	m 1106		Classroom 1107				Classroom 1108					
Media Expires On:			Aug 2	2023			Aug 2023						Aug 2	2023	
Notes Included:															
Volume:			75	5				7	5				7	5	
	raw ct	RL	spores/m³	%total	spores/m³ SF	raw ct	RL	spores/m³	%total	spores/m³ SF	raw ct	RL	spores/m³	%total	spores/m³ SI
Alternaria	1	13	13	2%	10				1000						
Ascospores	2	13	27	4%	30	2	13	27	5%	30	1	13	13	2%	10
Aspergillus / Penicillium	7	13	93	15%	90	22	13	293	54%	290	11	13	147	24%	150
Basidiospores	1	13	13	2%	10	1	13	13	2%	10				Felia III	
Cercospora / Pseudocercospora															
Chaetomium	1	13	13	2%	10										
Cladosporium			SELECT			3	13	40	7%	40	12	13	160	26%	160
Curvularia	3	13	40	6%	40	2	13	27	5%	30	2	13	27	4%	3
Drechslera / Bipolaris / Helminthosp	1	13	13	2%	10						2	13	27	4%	3(
Ganoderma															
Hyphal / Spore Fragments - Dematia	5	13	67	10%	70	4	13	53	10%	50	6	13	80	13%	8
Hyphal / Spore Fragments - Hyaline								2913							
Myxomycete / Periconia / Rust / Sm	27	13	360	56%	360	6	13	80	15%	80	12	13	160	26%	16
Nigrospora															
Pithomyces						1	13	13	2%	10					
Spegazzinia															
Stachybotrys															
TOTALS	48		639	100%	640	41		546	100%	550	46		614	100%	61
Analyst		E	ham Moh	ammad	ian		Е	ham Moh	ammad	lian		Е	lham Moh	ammadi	an
Analysis Date			10/2/2	2022				10/2/	2022				10/2/	2022	
Debris Rating			3					2	2				2	2	
Debris Composition															
Fibers			2/	5				1,	/5				1/	5	
Inorganic/Other			3/	5				2,	/5				2/	5	
Insect Parts			0/	5			0/5				0/5				
Pollen			0/	5				1,	/5				1/	5	
Skin/Dander	T		3/	5				2	/5				2/	5	



Data Detail

2051 Valley View Lane

Client:

Project:

Farmers Branch, TX 75234 Phone: (972) 241-8460

Lewisville Learning Center Classrooms 1106 - 1110

Ensolum, LLC

Lab Job No.: 22F-11045

Report Date: 10/02/2022

Sample Date: 09/29/2022

Spore Trap Type: Zefon - Air-O-Cell

TDLR License No.: LAB0117

AIHA EMPAT ID: 102577

Project #: 01A1288171

Sample Type: Spore Trap, Non-cultured

Test Method: Mold: MLQ - 0112 - Standard Profile

This report consists of three sections; a summary section, a data detail section, and an analytical notes section. Results may not be reported except in full.

Sample ID:	4										
Location:		Exte	rior, South	neast E	ntry 5						
Media Expires On:			Aug 2	2023							
Notes Included:		S	ee Analyt	ical Not	es						
Volume:			75	5							
	raw ct	RL	spores/m³	%total	spores/m³ SF						
Alternaria	15	13	200	3%	200					2452233	
Ascospores	10	13	133	2%	130						
Aspergillus / Penicillium	119	20	2380	31%	2400					25 (65%)	
Basidiospores	7	13	93	1%	90					NO DE	
Cercospora / Pseudocercospora	3	13	40	<1%	40						
Chaetomium											
Cladosporium	108	29	3086	40%	3100						
Curvularia	5	13	67	<1%	70						
Drechslera / Bipolaris / Helminthosp	1	13	13	<1%	10						
Ganoderma	2	13	27	<1%	30						Real Party
Hyphal / Spore Fragments - Dematia	31	13	413	5%	410		6363				
Hyphal / Spore Fragments - Hyaline											
Myxomycete / Periconia / Rust / Sm	86	13	1146	15%	1100						
Nigrospora	2	13	27	<1%	30						
Pithomyces											
Spegazzinia	1	13	13	<1%	10					19 4 4 4 4	
Stachybotrys											
TOTALS	390		7638	100%	7600	SOUR PROPERTY.	1159			THE STREET	Part Car
Analyst		Е	lham Moh	ammac	lian						
Analysis Date			10/2/2	2022							
Debris Rating			3	1							
Debris Composition								118			
Fibers			1/	5							
Inorganic/Other			3/	5							
Insect Parts			0/	5							
Pollen			1/	5							
Skin/Dander			1/	5							

End of Data Detail section 22F-11045

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Analytical Notes

2051 Valley View Lane

TDLR License No.: LAB0117 AIHA EMPAT ID: 102577

Farmers Branch, TX 75234 Phone: (972) 241-8460

Ensolum, LLC Client:

Project: Lewisville Learning Center Classrooms 1106 - 1110

Project #: 01A1288171

Sample Type: Spore Trap, Non-cultured

Test Method: Mold: MLQ - 0112 - Standard Profile

Spore Trap Type: Zefon - Air-O-Cell

Lab Job No.: 22F-11045

Report Date: 10/02/2022

Sample Date: 09/29/2022

Page 1 of 2

This report consists of three sections; a summary section, a data detail section, and an analytical notes section. Results may not be reported except in full.

Samples Analyzed

Sample No 4: Exterior, Southeast Entry 5

Notes: Please note: the minimum reporting limit for Cladosporium is 29 spores / cubic meter. When comparing

results to other samples, use calculated results, not raw numbers.

Please note: the minimum reporting limit for Aspergillus / Penicillium is 20 spores / cubic meter. When

comparing results to other samples, use calculated results, not raw numbers.

Field Blanks

No discernable field blanks were submitted with this set of samples.

NOTE: All remaining samples suitable for analysis.

Methods

Method: MLQ - 0112 / ASTM D7391: Categorization and Quantification of Airborne Fungal Structures in an Inertial Impaction.

Sample by Optical Microscopy.

Samples are read at 100% under 400x magnification unless noted. Partial readings may be employed when concentrations are elevated. Use final spore concentrations, not raw spore counts, for interpretation of results.

Calculation: Spores/cubic meter = (Raw spore count)*(RL)

Note: RL (Reporting Limit) is based upon 1 raw spore count.

Moody Labs recommends two significant figures for calculated values based on ASTM D7391.

This report must not be used by the customer to claim product certification, approval, or endorsement by AIHA, ISO, or any agency of the Federal Government.

Debris Rating Key

- 0 No linear trace detected
- 1 Trace particulate/debris
- 2 Light particulate/debris
- 3 Moderate particulate/debris
- 4 Substantial particulate/debris
- 5 Extensive particulate/debris
- 6 Field blank
- 10 Hold Sample
- 11 Modified Analysis per Client Instructions

NOTE: Particulate/debris are defined as skin, fibers, pollen grains, insect parts, fungal and/or other non-fungal particles.

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Analytical Notes

2051 Valley View Lane

Farmers Branch, TX 75234 Phone: (972) 241-8460

Client: Ensolum, LLC

Project: Lewisville Learning Center Classrooms 1106 - 1110 Project #: 01A1288171

Sample Type: Spore Trap, Non-cultured

Test Method: Mold: MLQ - 0112 - Standard Profile

TDLR License No.: LAB0117 AIHA EMPAT ID: 102577

Page 2 of 2

Lab Job No.: 22F-11045

Report Date: 10/02/2022 Sample Date: 09/29/2022

Spore Trap Type: Zefon - Air-O-Cell

This report consists of three sections; a summary section, a data detail section, and an analytical notes section. Results may not be reported except in full.



Lab 10 # 102571





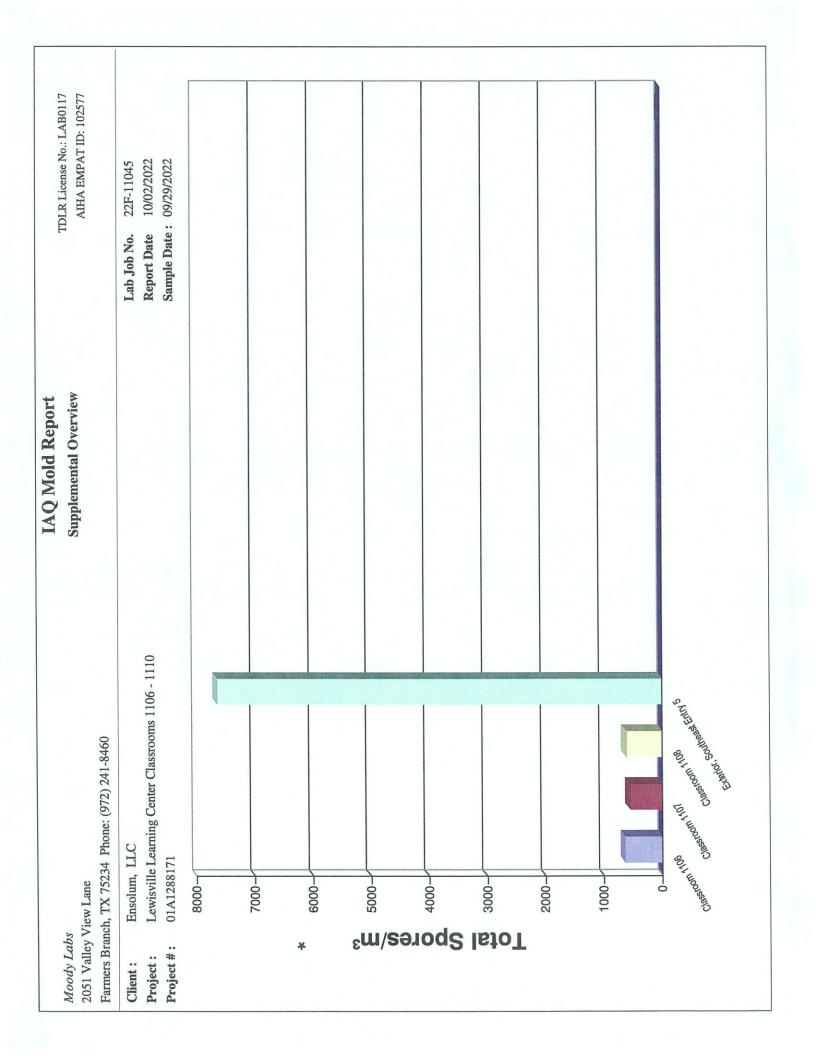






End of Analytical Notes section 22F-11045





TDLR License No.: LAB0117 AIHA EMPAT ID: 102577 10/02/2022 Sample Date: 09/29/2022 22F-11045 Lab Job No. Report Date Average Reference 2 Stachybotrys Spegazzinia Pithomyces Supplemental Overview IAQ Mold Report Nigrospora Myxomycete / Periconia / Rust / Smut Classroom 1106 Hyphal / Spore Fragments - Hyaline Average Reference 1 Hyphal / Spore Fragments - Dematiaceous Ganoderma Exserohilum group Drechslera / Bipolaris / Helminthosporum / Lewisville Learning Center Classrooms 1106 - 1110 Curvularia Cladosporium Farmers Branch, TX 75234 Phone: (972) 241-8460 Chaetomium Average Reference 1 = Exterior, Southeast Entry 5 Sample Cercospora / Pseudocercospora Basidiospores Ensolum, LLC Aspergillus / Penicillium 01A1288171 2051 Valley View Lane Ascospores Alternaria Project #: Project: Client: 3500 2500 1000 200 3000 2000 0 1500

TDLR License No.: LAB0117 AIHA EMPAT ID: 102577 10/02/2022 Sample Date: 09/29/2022 22F-11045 Lab Job No. Report Date Average Reference 2 Stachybotrys Spegazzinia Pithomyces Supplemental Overview IAQ Mold Report Nigrospora Myxomycete / Periconia / Rust / Smut Classroom 1107 Hyphal / Spore Fragments - Hyaline Average Reference 1 Hyphal / Spore Fragments - Dematiaceous Ganoderma Exserohilum group Drechslera / Bipolaris / Helminthosporum / Lewisville Learning Center Classrooms 1106 - 1110 Curvularia Cladosporium Farmers Branch, TX 75234 Phone: (972) 241-8460 Chaetomium Average Reference 1 = Exterior, Southeast Entry 5 Sample Cercospora / Pseudocercospora Basidiospores Ensolum, LLC Aspergillus / Penicillium 01A1288171 2051 Valley View Lane Ascospores Moody Labs Alternaria Project #: Project: Client: 200 2500 1000 3500 3000 2000 1500

TDLR License No.: LAB0117 AIHA EMPAT ID: 102577 10/02/2022 Sample Date: 09/29/2022 22F-11045 Lab Job No. Report Date Average Reference 2 Stachybotrys Spegazzinia Pithomyces Supplemental Overview IAQ Mold Report Nigrospora Myxomycete / Periconia / Rust / Smut Classroom 1108 Hyphal / Spore Fragments - Hyaline Average Reference 1 Hyphal / Spore Fragments - Dematiaceous Ganoderma Exserohilum group Drechslera / Bipolaris / Helminthosporum / Lewisville Learning Center Classrooms 1106 - 1110 Curvularia Cladosporium Farmers Branch, TX 75234 Phone: (972) 241-8460 Chaetomium Average Reference 1 = Exterior, Southeast Entry 5 Sample Cercospora / Pseudocercospora Basidiospores Ensolum, LLC Aspergillus / Penicillium 01A1288171 2051 Valley View Lane Ascospores Moody Labs Alternaria Project #: Project: Client: 200 3500 3000 2500 2000 0 1500 1000

TDLR License No.: LAB0117 AIHA EMPAT ID: 102577 10/02/2022 Sample Date: 09/29/2022 22F-11045 Report Date Lab Job No. Average Reference 2 Stachybotrys Spegazzinia Pithomyces Supplemental Overview IAQ Mold Report Nigrospora Exterior, Southeast Entry 5 Myxomycete / Periconia / Rust / Smut Hyphal / Spore Fragments - Hyaline Average Reference 1 Hyphal / Spore Fragments - Dematiaceous Ganoderma Exserohilum group Drechslera / Bipolaris / Helminthosporum / Lewisville Learning Center Classrooms 1106 - 1110 Curvularia Cladosporium Farmers Branch, TX 75234 Phone: (972) 241-8460 Chaetomium Average Reference 1 = Exterior, Southeast Entry 5 Sample Sample Cercospora / Pseudocercospora Basidiospores Ensolum, LLC End of Supplemental Overview section Aspergillus / Penicillium 01A1288171 2051 Valley View Lane **Ascospores** Moody Labs Alternaria Project #: Project: Client: 0 200 3500 3000 2000 2500 1500 1000 22F-11045



Chain of Custody

Lab Job #	27F-11045 Sta
Lab Job #	YAOC
Lab Job #	

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ASBESTOS P	ГW					MOLD				
PCM Air (74	<u>(00)</u>	☐ Analyz ☐ 1 day	a All	3 day Desitive	Stop	Direct Exc Standard Expanded Culture**	Air Imn	ned 🗍 1 da ned 🗍 1 da	y 2 day C y 2 day C y 2 day C 10-14 da 5 day	5 day 5 day
TOTAL DUS	•		LIES	T. 140			inks 🗌 Yes	□ No		
Air 7402 (Manager) Bulk Water/Wipe, Analyze Bla *Late night a	EM dethod La odified) [/Micro Vac [anks [analysis surcharg	te Night* 1 day 1 day 1 day 1 day Ves ges apply	☐ 2 day ☐ 2 day ☐ 2 day ☐ No	☐ 3 day	24 hr 5 day	Coliform 8 Staphyloc **Please OTHER: # ol	Samples:	iture tumarounds ytical requiremen	ts** e Date: 9 /2 °	<u> </u>
				Ester C	14510	44 1109,	1107, 1108. Pr	oject #: 01 /	128817	<u> </u>
Contact Info	_			ech Ton: M	• •			one #:	122989-	1 m so 1
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2	Classico)10	7			7-5	To 75 °He Ceitage = Ceit Hoor > Ceit	in The /w		
3	Classica	res 110	8			75	To Fe4 ° H= Cailing · Cailing Itoms ~ T	Tile (W	/z42°/. ps 61% : Shed	= 10 · 12 /
4		o1, S.u		Enty 8		75	T= 74 · H	-28 '/.	SH=35	7.
Released Released	Contract		<u> </u>	Date / Time: Date / Time:	3.39	Received By:	<u> </u>		Date / Time	



Summary

TDLR License No.: LAB0117 AIHA EMPAT ID: 102577

2051 Valley View Lane

Farmers Branch, TX 75234 Phone: (972) 241-8460

Client: Ensolum, LLC

Project: Lewisville Learning Center Classrooms 1106 - 1110

Project #: 01A1288171

Sample Type: Spore Trap, Non-cultured

Test Method: Mold: MLQ - 0112 - Standard Profile

Lab Job No.: 22F-11122

Report Date: 10/04/2022

Sample Date: 09/30/2022

Spore Trap Type: Zefon - Air-O-Cell

Page 1 of 2

On 9/30/2022, three (3) samples were submitted by a representative of Ensolum, LLC (located at 2351 W. Northwest Hwy Suite #1203, Dallas, TX 75220) for Spore Trap, Non-cultured mold analysis. This report consists of three sections; a summary section, a data detail section, and an analytical notes section.

Sample Number	Volume (liters)	Sample Description	Identification	Concer spores/cu	
5	75	Classroom 1109	Aspergillus / Penicillium	1026	40%
			Hyphal / Spore Fragments - Dematiaceous	400	15%
			Myxomycete / Periconia / Rust / Smut	400	15%
			Cladosporium	200	8%
			Drechslera / Bipolaris / Helminthosporum / Exserohilum group	147	6%
			Curvularia	133	5%
			Alternaria	133	5%
			Basidiospores	80	3%
			Pithomyces	40	2%
			Nigrospora	27	1%
			Total:	2586	100%
6 7	75	Classroom 1110	Aspergillus / Penicillium	1093	62%
			Cladosporium	200	11%
			Hyphal / Spore Fragments - Dematiaceous	120	7%
			Myxomycete / Periconia / Rust / Smut	120	7%
			Alternaria	67	4%
			Drechslera / Bipolaris / Helminthosporum / Exserohilum group	53	3%
			Basidiospores	40	2%
			Curvularia	27	2%
			Ganoderma	13	<1%
			Coprinus group	13	<1%
			Torula	13	<1%
			Ascospores	13	<1%
			Total:	1772	100%



Summary

2051 Valley View Lane

Project:

TDLR License No.: LAB0117 AIHA EMPAT ID: 102577

Farmers Branch, TX 75234 Phone: (972) 241-8460

Client: Ensolum, LLC

Lewisville Learning Center Classrooms 1106 - 1110

Project #: 01A1288171

Sample Type: Spore Trap, Non-cultured

Test Method: Mold: MLQ - 0112 - Standard Profile

Lab Job No.: 22F-11122

Report Date: 10/04/2022

Sample Date: 09/30/2022

Spore Trap Type: Zefon - Air-O-Cell

Page 2 of 2

On 9/30/2022, three (3) samples were submitted by a representative of Ensolum, LLC (located at 2351 W. Northwest Hwy Suite #1203, Dallas, TX 75220) for Spore Trap, Non-cultured mold analysis. This report consists of three sections; a summary section, a data detail section, and an analytical notes section.

Sample Number	Volume (liters)	Sample Description	Identification	Concer spores/cu	ntration
7	75	Exterior, Northwest Entry Door 1 * See Analytical Notes report for further details	Aspergillus / Penicillium Cladosporium Hyphal / Spore Fragments - Dematiaceous	6733 2353 933	56% 20% 8%
			Basidiospores	493	4%
			Myxomycete / Periconia / Rust / Smut	387	3%
			Cercospora / Pseudocercospora	293	2%
			Paecilomyces	213	2%
			Alternaria	160	1%
			Ascospores	133	1%
			Nigrospora	107	<1%
		Curvularia	80	<1%	
			Fusarium	53	<1%
			Drechslera / Bipolaris / Helminthosporum / Exserohilum group	53	<1%
			Pithomyces	13	<1%
			Coprinus group	13	<1%
			Ganoderma	13	<1%
			Spegazzinia	13	<1%
			Epicoccum	13	<1%
			Total:	12056	100%

This report shall not be reproduced except in full, without approval of the laboratory. Data contained in this test report relates only to the samples tested. This report does not express or imply interpretation of the results contained herein. Interpretation should be made by a qualified professional. Moody Labs assumes no responsibility for the manner in which these samples were collected or handled prior to being received at this laboratory. Volume, area, and/or weight is provided by the customer. Moody Labs assumes no responsibility for the qualifications of personnel performing sampling and/or interpretations of this data.

Elham Mohammadian Analyst(s):

Lab Director: Heather Lopez

Lab Director: Bruce Crabb

Thank you for choosing Moody Labs

Approved Signatory:

Approved Signatory:

Benne Vall



Data Detail

2051 Valley View Lane

Farmers Branch, TX 75234 Phone: (972) 241-8460

Client:

Ensolum, LLC

Project:

Lewisville Learning Center Classrooms 1106 - 1110

Project #:

01A1288171

Sample Type: Spore Trap, Non-cultured

Test Method: Mold: MLQ - 0112 - Standard Profile

Lab Job No.: 22F-11122

Report Date: 10/04/2022

Sample Date: 09/30/2022

Spore Trap Type: Zefon - Air-O-Cell

TDLR License No.: LAB0117

AIHA EMPAT ID: 102577

Sample ID:	5					6					7					
Location:	Classroom 1109					Classroom 1110					Exterior, Northwest Entry Door 1					
Media Expires On:		Aug 2023					Aug 2023					Aug 2023				
Notes Included:												S	ee Analyt	ical Not	tes	
Volume:		75				75					75					
	raw ct	RL	spores/m³	%total	spores/m³ SF	raw ct	RL	spores/m³	%total	spores/m³ SF	raw ct	RL	spores/m³	%total	spores/m³ SF	
Alternaria	10	13	133	5%	130	5	13	67	4%	70	12	13	160	1%	160	
Ascospores						1	13	13	<1%	10	10	13	133	1%	130	
Aspergillus / Penicillium	77	13	1026	40%	1000	82	13	1093	62%	1100	101	67	6733	56%	6700	
Basidiospores	6	13	80	3%	80	3	13	40	2%	40	37	13	493	4%	490	
Cercospora / Pseudocercospora				7							22	13	293	2%	290	
Chaetomium																
Cladosporium	15	13	200	8%	200	15	13	200	11%	200	100	24	2353	20%	2400	
Coprinus group						1	13	13	<1%	10	1	13	13	<1%	10	
Curvularia	10	13	133	5%	130	2	13	27	2%	30	6	13	80	<1%	80	
Drechslera / Bipolaris / Helminthosp	11	13	147	6%	150	4	13	53	3%	50	4	13	53	<1%	50	
Epicoccum			8.0(m/m)								1	13	13	<1%	10	
Fusarium											4	13	53	<1%	50	
Ganoderma						1	13	13	<1%	10	1	13	13	<1%	10	
Hyphal / Spore Fragments - Dematia	30	13	400	15%	400	9	13	120	7%	120	70	13	933	8%	930	
Hyphal / Spore Fragments - Hyaline																
Myxomycete / Periconia / Rust / Sm	30	13	400	15%	400	9	13	120	7%	120	29	13	387	3%	390	
Nigrospora	2	13	27	1%	30						8	13	107	<1%	100	
Paecilomyces											16	13	213	2%	210	
Pithomyces	3	13	40	2%	40						1	13	13	<1%	10	
Spegazzinia									in the		1	13	13	<1%	10	
Stachybotrys																
Torula						1	13	13	<1%	10						
TOTALS	194		2586	100%	2600	133		1772	100%	1800	424		12056	100%	12000	
Analyst	Elham Mohammadian			ian	Elham Mohammadian					Elham Mohammadian						
Analysis Date		10/4/2022			10/4/2022					10/4/2022						
Debris Rating		4				3					3					
Debris Composition																
Fibers			2/	5		2/5				2/5						
Inorganic/Other			3/	5		3/5				3/5						
Insect Parts			0/	5				1,	/5				1/	5		
Pollen			1/	5				1,	/5				1/	5		
Skin/Dander	T		4/					3.	/5				1/	5		

End of Data Detail section

22F-11122

SMLMS v13.65



Analytical Notes

2051 Valley View Lane

TDLR License No.: LAB0117 AIHA EMPAT ID: 102577

Page 1 of 2

Farmers Branch, TX 75234 Phone: (972) 241-8460

Client: Ensolum, LLC

Lewisville Learning Center Classrooms 1106 - 1110

Project #: 01A1288171

Sample Type: Spore Trap, Non-cultured

Test Method: Mold: MLQ - 0112 - Standard Profile

Spore Trap Type: Zefon - Air-O-Cell

Lab Job No.: 22F-11122

Report Date: 10/04/2022

Sample Date: 09/30/2022

This report consists of three sections; a summary section, a data detail section, and an analytical notes section. Results may not be reported except in full.

Samples Analyzed

Sample No

7: Exterior, Northwest Entry Door 1

Notes:

Project:

Please note: the minimum reporting limit for Aspergillus / Penicillium is 67 spores / cubic meter. When

comparing results to other samples, use calculated results, not raw numbers.

Please note: the minimum reporting limit for Cladosporium is 24 spores / cubic meter. When comparing

results to other samples, use calculated results, not raw numbers.

Field Blanks

No discernable field blanks were submitted with this set of samples.

NOTE: All remaining samples suitable for analysis.

Methods

Method: MLQ - 0112 / ASTM D7391: Categorization and Quantification of Airborne Fungal Structures in an Inertial Impaction.

Sample by Optical Microscopy.

Samples are read at 100% under 400x magnification unless noted. Partial readings may be employed when concentrations are elevated. Use final spore concentrations, not raw spore counts, for interpretation of results.

Calculation: Spores/cubic meter = (Raw spore count)*(RL)

Note: RL (Reporting Limit) is based upon 1 raw spore count.

Moody Labs recommends two significant figures for calculated values based on ASTM D7391.

This report must not be used by the customer to claim product certification, approval, or endorsement by AIHA, ISO, or any agency of the Federal Government.

Debris Rating Key

- 0 No linear trace detected
- 1 Trace particulate/debris
- 2 Light particulate/debris
- 3 Moderate particulate/debris
- 4 Substantial particulate/debris
- 5 Extensive particulate/debris
- 6 Field blank
- 10 Hold Sample
- 11 Modified Analysis per Client Instructions

NOTE: Particulate/debris are defined as skin, fibers, pollen grains, insect parts, fungal and/or other non-fungal particles.

SMLMS v13.65



Analytical Notes

2051 Valley View Lane

Client:

Project:

Project #:

Farmers Branch, TX 75234 Phone: (972) 241-8460

Lewisville Learning Center Classrooms 1106 - 1110

Ensolum, LLC

01A1288171

Test Method: Mold: MLQ - 0112 - Standard Profile

TDLR License No.: LAB0117 AIHA EMPAT ID: 102577

Page 2 of 2

Lab Job No.: 22F-11122

Report Date: 10/04/2022 Sample Date: 09/30/2022

Spore Trap Type: Zefon - Air-O-Cell

Sample Type: Spore Trap, Non-cultured

This report consists of three sections; a summary section, a data detail section, and an analytical notes section. Results may not be reported except in full.



Lab 10 # 102571





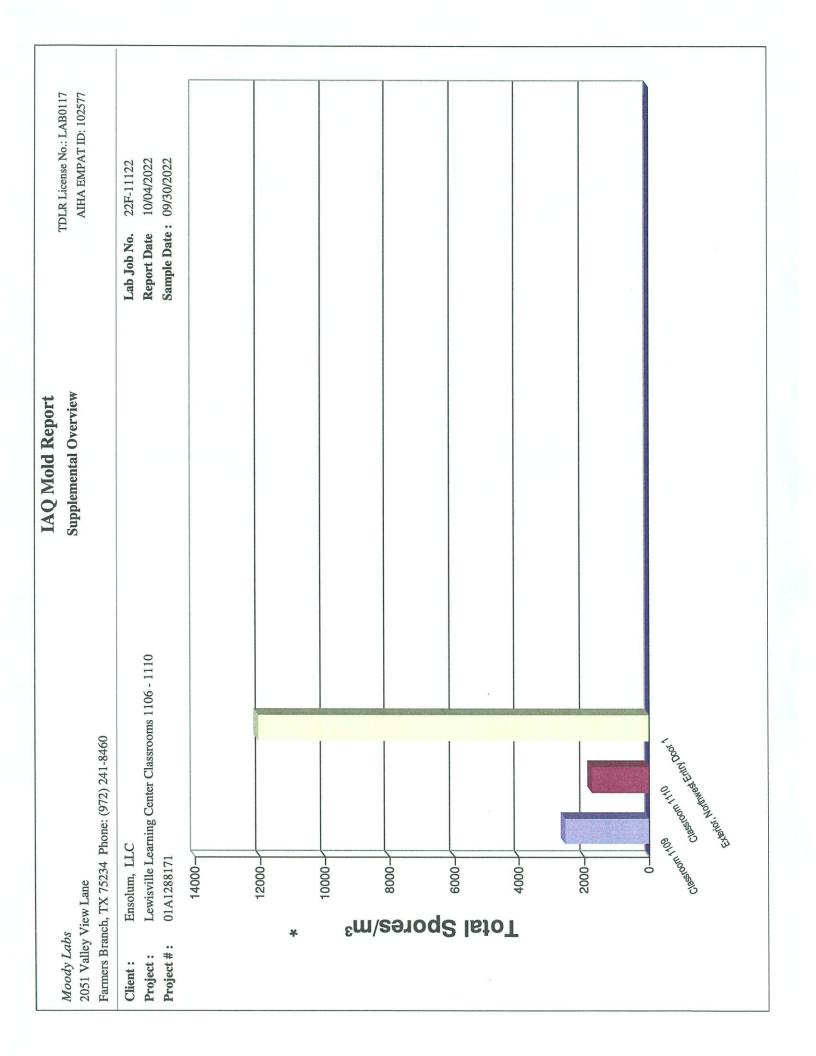






End of Analytical Notes section 22F-11122





TDLR License No.: LAB0117 AIHA EMPAT ID: 102577 Torula Stachybotrys 10/04/2022 Sample Date: 09/30/2022 22F-11122 Spegazzinia Pithomyces Lab Job No. Report Date Average Reference 2 Paecilomyces Nigrospora Myxomycete / Periconia / Rust / Smut Hyphal / Spore Fragments - Hyaline Supplemental Overview IAQ Mold Report Hyphal / Spore Fragments - Dematiaceous Ganoderma Classroom 1109 Fusarium Average Reference 1 Epicoccum Exserohilum group Drechslera / Bipolaris / Helminthosporum / Curvularia Lewisville Learning Center Classrooms 1106 - 1110 Coprinus group Cladosporium Average Reference 1 = Exterior, Northwest Entry Door 1 Farmers Branch, TX 75234 Phone: (972) 241-8460 Chaetomium Sample Cercospora / Pseudocercospora Basidiospores Ensolum, LLC Aspergillus / Penicillium 01A1288171 2051 Valley View Lane Ascospores Alternaria Project #: Project: Client: 8000 7000 4000 0009 5000 3000 2000 1000

TDLR License No.: LAB0117 AIHA EMPAT ID: 102577 Torula Stachybotrys 10/04/2022 Sample Date: 09/30/2022 22F-11122 Spegazzinia Pithomyces Report Date Lab Job No. ☐ Average Reference 2 Paecilomyces Nigrospora Myxomycete / Periconia / Rust / Smut Hyphal / Spore Fragments - Hyaline Supplemental Overview IAQ Mold Report Hyphal / Spore Fragments - Dematiaceous Ganoderma Classroom 1110 Fusarium Average Reference 1 Epicoccum Exserohilum group Drechslera / Bipolaris / Helminthosporum / Curvularia Lewisville Learning Center Classrooms 1106 - 1110 Coprinus group Cladosporium Average Reference 1 = Exterior, Northwest Entry Door 1 Farmers Branch, TX 75234 Phone: (972) 241-8460 Chaetomium Sample Cercospora / Pseudocercospora Basidiospores Ensolum, LLC Muillioin9 \ enllig19qsA 01A1288171 2051 Valley View Lane Ascospores Alternaria Project #: Project: Client: 8000 7000 0009 2000 1000 0 5000 4000 3000

TDLR License No.: LAB0117 AIHA EMPAT ID: 102577 Torula Stachybotrys 10/04/2022 Sample Date: 09/30/2022 22F-11122 Spegazzinia Pithomyces Lab Job No. Report Date ☐ Average Reference 2 Paecilomyces Nigrospora Myxomycete / Periconia / Rust / Smut Hyphal / Spore Fragments - Hyaline Supplemental Overview IAQ Mold Report Hyphal / Spore Fragments - Dematiaceous Exterior, Northwest Entry Door 1 Ganoderma Fusarium Average Reference 1 Epicoccum Exserohilum group Drechslera / Bipolaris / Helminthosporum / Curvularia Lewisville Learning Center Classrooms 1106 - 1110 Coprinus group Cladosporium Average Reference 1 = Exterior, Northwest Entry Door 1 Farmers Branch, TX 75234 Phone: (972) 241-8460 Chaetomium Sample Sample Cercospora / Pseudocercospora Basidiospores Ensolum, LLC End of Supplemental Overview section Aspergillus / Penicillium 01A1288171 2051 Valley View Lane Ascospores Alternaria Project #: Project: Client: 8000 7000 0009 5000 1000 0 4000 3000 2000 22F-11122



Chain of Custody

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Lab Job #_		3 ACC_
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	Immediate		2 day Yes	3 day	5 day	Culture** TPC w/ Ye	east & Mold	i (TYMC)		☐ 10-14 ☐ 5 day	days
OTAL DUS	T(0500/06		2 day			Analyze Bla	nks 🗌 Y		□ No		
BESTOS		,			B	ACTERIA**	e Count (T	ΔMC)		☐ 2 da	IV.
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Analyze Bi	e/Micro Vac i anks analysis surcha	☐ Yes		☐ 3 day		OTHER:			requiremen		•
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Notes: Sample	eperwork and sam	Sam	ple Descr	ol ∪∞4 . Unsembed / Imp	Lom	/dameged / expline Vol. / Area (if applicable)	T:74 Ciling!	Loca H=3	tion / No	otes 	M:S-16
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Sample :	# Classon	Sam	ple Descri	iption	Compeny packaged	Vol. / Area (if applicable)	T:74 Ciling: Floor: T:78 Ciling:	Loca H=3	tion / No	otes otes 4:46% kus•Sk 1=41%	PM = F- 10
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Sample :	# Classon	Sam	ple Descri	iption	Compeny packaged	Vol. / Area (if applicable)	T:74 Ciling: Floor: T:78 Ciling:	Loca H = 37 Called H = 34 Called Called	tion / No	otes otes 4:46% kus•Sk 1=41%	M=8-10 M=81 M=81 Al=81
Sample :	# Classon	Sam	ple Descri	iption	Compeny packaged	Vol. / Area (if applicable)	T:74 Ciling: Floor: T=78 Citing: T=71	Loca H = 35 Carp. H = 34 Carp.	tion / No	otes -46/. -46/. -46/. -46/. -46/. -46/.	M=8-10 M=84 M=84 M=84
Sample :	# Classon	Sam	ple Descri	iption	Compeny packaged	Vol. / Area (if applicable)	T:74 Ciling: T=78 Ciling: T=71 Note:	Loca H = 3 Gilley Carp H = 34 Carp	tion / No	otes 1:46/. 645. Sh 1:41/.	M=8-10 M=81 M=81 Al=81
Sample :	# Classon	Sam	ple Descri	iption	Compeny packaged	Vol. / Area (if applicable)	T:74 Ciling: T=78 Ciling: T=71 Note:	Loca Loca H = 53 Called Called H = 34 Called Called Called Called Called Called Called	tion / No 1.51 Ties/In Ties	otes	M=8-10 M=81 M=81 M=81
Sample :	# Classon	Sam	ple Descri	iption	Compeny packaged	Vol. / Area (if applicable)	T:74 Ciling: T=78 Ciling: T=71 Note:	Loca Loca H = 53 Called Called H = 34 Called Called Called Called Called Called Called	tion / No 1.51 Ties/In Ties	otes	M=8-10 M=84 M=84 M=84
Sample :	# Classon	Sam	ple Descri	iption	Compeny packaged	Vol. / Area (if applicable)	T:74 Ciling: Floor: T=71 Note: Sylving	Loca Loca H=5 Carp Carp Classe Character Chara	tion / No. 1.51 The / S. 1.51	110 H	M=8-10 elrock pl=81 plrode Filling S 2 l
Sample :	# Classical Classical Extens	Sam	ple Descri	iption	Compety packaged	/ damegod / expire Vol. / Area (if applicable) 75	T:74 Ciling: Floor: T=71 Note: Sylving	Loca Loca H=5 Carp Carp Classe Character Chara	tion / No. 1.51 The / S. 1.51	110 H	M=8-10 colorals M=81 colorals M=81 colorals
Sample :	Classical Classical	Sam	ple Descri	iption	Dept I	Vol. / Area (if applicable)	T:74 Ciling: Floor: T=71 Note: Sylving	Loca Loca Loca Loca Loca Loca Loca Loca	tion / No. 1.51 The / S. 1.51	110 H	M=8-10 M=8-10

APPENDIX B DEFINITIONS AND LIMITATIONS



Mold Services Definitions & Limitations

Ensolum performed services in accordance with generally accepted practices of the profession undertaken in similar services at the same time and in the same geographical area. No other warranties, express or implied, apply to the services hereunder or the final report.

Ensolum's services and any report have been prepared on behalf of and for the exclusive use of the Client solely for its use and reliance in assessing the presence of mold in the Investigation Areas of the site. The Client was the only party to which Ensolum explained the risks and limitations of the services and was solely involved in shaping the scope of services. Accordingly, reliance on this report by any other party may involve assumptions leading to an unintended interpretation of findings and opinions. With the consent of the Client, Ensolum may offer reliance to third parties or contract with other parties to develop findings and opinions related to such party's unique risk management concerns. Notwithstanding the foregoing, reliance by any and all third parties upon this deliverable, Ensolum's services or any subsequent report shall be limited in the aggregate to the fair market value of the services provided by Ensolum.

"Limited Mold Assessment". This deliverable uses the term "Limited Mold Assessment" to denote that Ensolum's mold assessment services are limited: (i) to certain portions of the building structure (e.g., the Investigation Areas), by non-destructive sampling methodologies, and/or by access limitations to building materials or components within the Investigation Area(s). In contrast to a "Limited Assessment" is a comprehensive assessment would involve destructive sampling methods with the assessment to be conducted throughout the entire building structure.

Time sensitive. One must keep in mind that mold assessments are essentially a "snap shot in time," and the results are only relevant at the time of site reconnaissance. Because mold, when biologically active, is a living organism, its presence is influenced and controlled by environmental conditions. Mold assessments, therefore, are "time sensitive" in that the presence and concentration of mold and similar organisms in building structures or in the air is directly influenced by environmental conditions (such as humidity, moisture, nutrients and substrates), whether natural or caused by man, which conditions may vary significantly over relatively short periods of time.

Methodologies. Currently, mold assessment methodologies and protocols in Texas are governed by persuasive guidelines (rather than promulgated federal/state or local regulations). Presently, there is no data that supports a threshold limit or dose-response relationship for exposure to mold aeroallergens, individual pathogens, opportunistic pathogens and/or mycotoxins. The Occupational Safety and Health Administration (OSHA), the National Institute of Occupational Safety and Health (NIOSH) and other non-governmental associations, have not yet established permissible exposure limits (PELs), recommended exposure limits (RELs), or other limit values for fungi. Because no limit values presently exist. Ensolum will not and cannot represent that the site contains no harmful microbes, mold, fungi, or their metabolites, or other latent conditions beyond those identified by the limited scope of this mold assessment.



Findings limited. Findings in an LMA are limited due to the nature of the information obtained such as a visual reconnaissance of readily accessible areas of building structures, interview information, anecdotal information, and limited sampling data derived from one or more specific sampling events. Ensolum cannot warrant the accuracy of prior or subsequent information/data, reports and services performed by other firms at the Site. Ensolum assumes no responsibility or liability for errors in information or data provided by or through the client or third party sources. Ensolum's services are not to be construed as legal or medical interpretation or advice.

Moisture Intrusion Limitation. Ensolum performs mold assessment services and is not a moisture intrusion, HVAC, plumbing or building envelope specialist. However, during the course of conducting its mold assessment services, Ensolum will report observed areas of apparent moisture intrusion. Ensolum does not and will not investigate the cause or causes of such observed moisture intrusion. In the event apparent moisture intrusion is observed, Ensolum will recommend that the client contact a specialist (i.e., plumbing contractor, building envelope specialist, HVAC contractor, water intrusion specialist, etc.) to assist the client in determining the specific cause or causes of the moisture intrusion and remedial options.

Certificate of Mold Damage Remediation (CMDR). For mold remediation projects (above certain size thresholds), applicable Texas law (i.e., Texas Occupation Code Section 1958.54 and T.A.C. Section 295.397 (the Texas Mold Assessment and Remediation Rules), requires that a "Certificate of Mold Damage Remediation" be issued by the Mold Remediation Contractor upon successful completion of the project. This certificate must be provided to property owners no later than the 10th day after the date on which the mold remediation is completed at a property. The Mold Remediation Certificate issued by the Mold Remediation Contractor must include a certification by the Mold Assessor that the mold remediation project has been successfully completed in accordance with the mold remediation protocol.

Be advised that Ensolum's issuance of a CMDR upon successful completion of a Mold Remediation project does not mean, warrant or otherwise guarantee that mold will not be subsequently found in any portion of an Investigation Area or the Site. In the event that Ensolum is engaged to render services in connection with a mold remediation project, ENSOLUM will require Client to provide to Ensolum written documentation that all sources of moisture which contributed to the presence of mold in the Investigation Area have been fully remediated and corrected prior to achieving clearance.