Limited Mold Assessment Room 1120

Treadway, David <treadwayd@lisd.net>

Thu 10/20/2022 3:27 PM

To: Knight, Kelly <knightk@lisd.net>;Fritz, Amy <fritza@lisd.net>;Hilliard, Karen <hilliardk@lisd.net>
Cc: Reibly, Ruth <reiblyr@lisd.net>;Hughes, Jason <hughesjk@lisd.net>;Jones, Steven <jonessa@lisd.net>;Cashman, Jinger <cashmans@lisd.net>;Overacker, Michael <overackerm@lisd.net>;Demming, Calvin <demmingc@lisd.net>

Mrs. Knight,

Good afternoon. I am sending this email to follow up with the results of a limited mold assessment conducted in Room 1120. Ensolum LLC. conducted a limited mold assessment in Room 1120 on September 30, 2022, per a campus request. It is typically assumed that indoor spore levels in an area with filtered or air-conditioned air, and activity levels associated with schools, average below the outdoor levels. Data from the airborne fungi sampling indicated that the total indoor concentration of mold/fungi in Room 1120 was 15% of the outdoor levels. Utilizing this theory, the indoor concentration levels were within the acceptable guidelines for areas with filtered or air-conditioned air. It is my recommendation that the room be thoroughly cleaned and sanitized. I would also recommend that the air purifier be cleaned and the filter changed. I have also requested that the West Zone check the HVAC system for any issues. They will also clean the unit and change the filter. Please let me know if you or your team have any questions.

Sincerely, David Treadway

David Treadway LISD Environmental Coordinator Facility Services Department



October 21, 2022

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

Re:

Limited Mold Assessment
McKamey MS Room 1120
2401 Old Settlers Rd.
Flower Mound, TX 75022

Ensolum Proposal No. P01A1288173

Ensolum, LLC (Ensolum) was retained to perform limited mold assessment services within room 1120 of Killian Middle School, 2401 Old Settlers Rd., Flower Mound, TX 75022. 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 room 1120 of Killian Middle School, 2401 Old Settlers Rd., Flower Mound, TX 75022. 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 30, 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 Room 1120. Water damage was observed in the following locations:

	VISIBLE W	ATER DAMAGE
LOCATION	DATE	EXPLANATION
Room 1120	9/30/2022	N/A

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, I	RELATIVE HU	MIDITY & SPEC	IFIC HUMIDITY	
LOCATION	DATE	Temperature: F	Relative Humidity	Specific Humidity
Exterior, Southeast	9/30/2022	77	27.0	37.0
Exterior, Northeast	9/30/2022	75	25.0	32.0
Room 1120	9/30/2022	77	36.0	49.0

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, Southeast
2	Exterior Northeast
3	Room 1120

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

TDLR License No.: LAB0117 AIHA EMPAT ID: 102577

2051 Valley View Lane

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

Client: Ensolum, LLC

Project: McKamy Middle School Room 1120

Project #: 01A1288173

Sample Type: Spore Trap, Non-cultured

Test Method: Mold: MLQ - 0112 - Standard Profile

Sample Date: 09/30/2022

Lab Job No.: 22F-11120

Report Date: 10/04/2022

Spore Trap Type: Zefon - Air-O-Cell

Page 1 of 3

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		ntration bic meter
1	75	Exterior, Southeast * See Analytical Notes report for further details	Cladosporium Aspergillus / Penicillium Myxomycete / Periconia / Rust / Smut Hyphal / Spore Fragments - Dematiaceous Ascospores Basidiospores Drechslera / Bipolaris / Helminthosporum / Exserohilum group Curvularia Alternaria Cercospora / Pseudocercospora Nigrospora Hyphal / Spore Fragments - Hyaline Torula Epicoccum Ganoderma Chaetomium Pestalotia / Pestalotiopsis Spegazzinia Tetraploa Pithomyces Total:	2180 1962 1080 573 240 187 187 173 133 120 67 40 27 27 27 13 13 13 13 13 7088	31% 28% 15% 8% 3% 3% 2% 2% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1



Summary

2051 Valley View Lane

Client:

Project:

Project #:

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

McKamy Middle School Room 1120

Ensolum, LLC

TDLR License No.: LAB0117

AIHA EMPAT ID: 102577

Lab Job No.: 22F-11120

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

Spore Trap Type: Zefon - Air-O-Cell

Page 2 of 3

01A1288173 Sample Type: Spore Trap, Non-cultured

Test Method: Mold: MLQ - 0112 - Standard Profile

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
2	75	Exterior, Northeast	Cladosporium	2337	36%
		* See Analytical Notes report for	Aspergillus / Penicillium	1878	29%
		further details	Hyphal / Spore Fragments - Dematiaceous	547	8%
			Myxomycete / Periconia / Rust / Smut	507	8%
		1	Cercospora / Pseudocercospora	347	5%
			Ascospores	253	4%
			Basidiospores	213	3%
			Alternaria	120	2%
			Hyphal / Spore Fragments - Hyaline	67	1%
			Nigrospora	40	<1%
			Coprinus group	40	<1%
			Fusarium	27	<1%
			Ganoderma	27	<1%
			Curvularia	13	<1%
			Epicoccum	13	<1%
			Torula	13	<1%
			Pithomyces	13	<1%
			Total:	6455	100%



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:

McKamy Middle School Room 1120

Project #:

01A1288173

Sample Type: Spore Trap, Non-cultured

Test Method: Mold: MLQ - 0112 - Standard Profile

Report Date: 10/04/2022

Sample Date: 09/30/2022

Spore Trap Type: Zefon - Air-O-Cell

Lab Job No.: 22F-11120

Page 3 of 3

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		ntration bic meter
3	75	Room 1120	Aspergillus / Penicillium Hyphal / Spore Fragments -	440 213	42% 20%
			Dematiaceous Cladosporium	213	20%
			Myxomycete / Periconia / Rust / Smut	80	8%
			Drechslera / Bipolaris / Helminthosporum / Exserohilum group	27	3%
			Curvularia	27	3%
			Alternaria	27	3%
			Basidiospores	13	1%
			Ascospores	13	1%
			Total:	1053	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.

Analyst(s):

Dylan Milholen

Lab Director: Heather Lopez

Lab Director: Bruce Crabb

Thank you for choosing Moody Labs

Approved Signatory:

Approved Signatory:

Benne Vall

SMLMS v13.65

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Data Detail

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.

2051 Valley View Lane

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

Client:

Ensolum, LLC

Project:

McKamy Middle School Room 1120

Project #:

01A1288173

Sample Type: Spore Trap, Non-cultured

Test Method: Mold: MLQ - 0112 - Standard Profile

Lab Job No.: 22F-11120

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:			1					2	!				3		
Location:		E	Exterior, S	outhea	st		E	Exterior, N	Northeas	st			Room	1120	
Media Expires On:			Aug 2	2023				Aug 2	2023				Aug 2	2023	
Notes Included:		S	ee Analyt	ical Not	tes		S	ee Analyt	ical Note	es					
Volume:			75	5				75	5				75	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 SF
Alternaria	10	13	133	2%	130	9	13	120	2%	120	2	13	27	3%	30
Ascospores	18	13	240	3%	240	19	13	253	4%	250	1	13	13	1%	10
Aspergillus / Penicillium	103	19	1962	28%	2000	108	17	1878	29%	1900	33	13	440	42%	440
Basidiospores	14	13	187	3%	190	16	13	213	3%	210	1	13	13	1%	10
Cercospora / Pseudocercospora	9	13	120	2%	120	26	13	347	5%	350					
Chaetomium	1	13	13	<1%	10										
Cladosporium	109	20	2180	31%	2200	111	21	2337	36%	2300	16	13	213	20%	210
Coprinus group						3	13	40	<1%	40					
Curvularia	13	13	173	2%	170	1	13	13	<1%	10	2	13	27	3%	30
Drechslera / Bipolaris / Helminthosp	14	13	187	3%	190						2	13	27	3%	30
Epicoccum	2	13	27	<1%	30	1	13	13	<1%	10					
Fusarium						2	13	27	<1%	30					
Ganoderma	2	13	27	<1%	30	2	13	27	<1%	30					
Hyphal / Spore Fragments - Dematia	43	13	573	8%	570	41	13	547	8%	550	16	13	213	20%	210
Hyphal / Spore Fragments - Hyaline	3	13	40	<1%	40	5	13	67	1%	70					
Myxomycete / Periconia / Rust / Sm	81	13	1080	15%	1100	38	13	507	8%	510	6	13	80	8%	80
Nigrospora	5	13	67	<1%	70	3	13	40	<1%	40					
Pestalotia / Pestalotiopsis	1	13	13	<1%	10										
Pithomyces	1	13	13	<1%	10	1	13	13	<1%	10					
Spegazzinia	1	13	13	<1%	10										
Stachybotrys															
Tetraploa	1	13	13	<1%	10			ALC: U							
Torula	2	13	27	<1%	30	1	13	13	<1%	10					
TOTALS	433		7088	100%	7100	387		6455	100%	6500	79		1053	100%	1100
Analyst			Dylan N	lilholen				Dylan M	Milholen				Dylan N	filholen	
Analysis Date			10/4/2	2022				10/4/	2022				10/4/	2022	
Debris Rating			3	3				3	3				3	}	
Debris Composition										-					
Fibers			1/	5				1/	5				1/	5	
Inorganic/Other			3/	5				3/	5	Wallian Market Commission			2/	5	
Insect Parts			1/	-				1/					0/	5	
Pollen			1/					1/					0/	-	
Skin/Dander			1/					1/	The second second				3/		

End of Data Detail section

22F-11120

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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

Client:

Ensolum, LLC

Project:

McKamy Middle School Room 1120

Project #:

01A1288173

Sample Type: Spore Trap, Non-cultured

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

Lab Job No.: 22F-11120

Spore Trap Type: Zefon - Air-O-Cell

Test Method: Mold: MLQ - 0112 - Standard Profile

Page 1 of 3

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:

1: Exterior, Southeast

Notes:

Please note: the minimum reporting limit for Cladosporium is 20 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 19 spores / cubic meter. When

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

Sample No:

2: Exterior, Northeast

Notes:

Please note: the minimum reporting limit for Cladosporium is 21 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 17 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.



Analytical Notes

2051 Valley View Lane

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

Ensolum, LLC

Project: McKamy Middle School Room 1120
Project #: 01A1288173

Sample Type: Spore Trap, Non-cultured

Test Method: Mold: MLQ - 0112 - Standard Profile

Lab Job No.: 22F-11120

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

Spore Trap Type: Zefon - Air-O-Cell

Page 2 of 3

TDLR License No.: LAB0117

AIHA EMPAT ID: 102577

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.

Methods

Client:

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.



Analytical Notes

2051 Valley View Lane

Project:

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

Client: Ensolum, LLC

Project #: 01A1288173

Sample Type: Spore Trap, Non-cultured

Test Method: Mold: MLQ - 0112 - Standard Profile

McKamy Middle School Room 1120

TDLR License No.: LAB0117 AIHA EMPAT ID: 102577

Lab Job No.: 22F-11120 Report Date: 10/04/2022

Sample Date: 09/30/2022

Spore Trap Type: Zefon - Air-O-Cell

Page 3 of 3

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







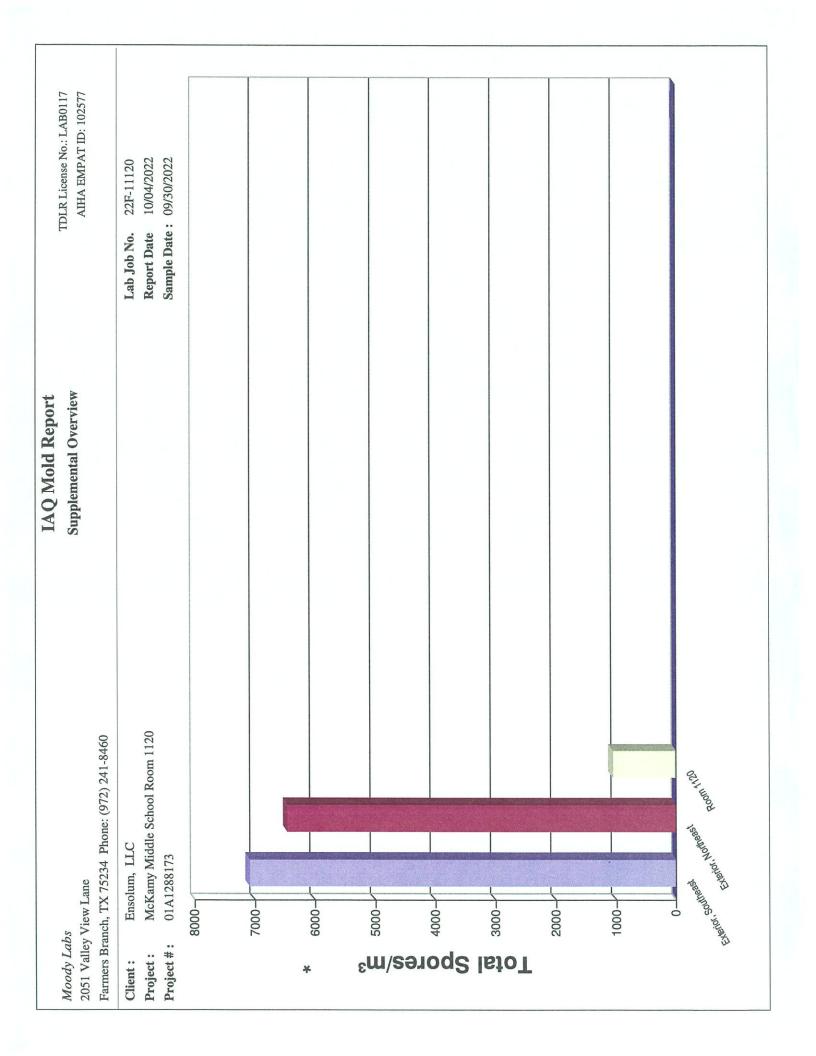




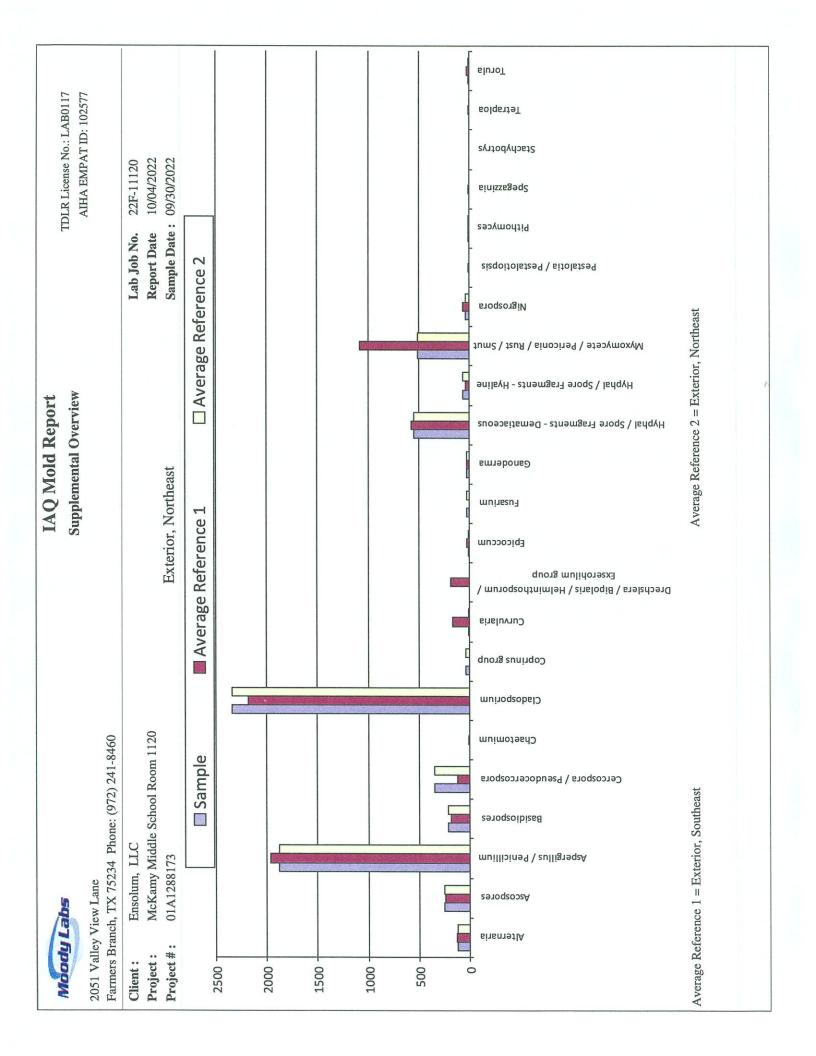
End of Analytical Notes section 22F-11120



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Torula TDLR License No.: LAB0117 AIHA EMPAT ID: 102577 Tetraploa Stachybotrys 10/04/2022 Sample Date: 09/30/2022 22F-11120 Spegazzinia Pithomyces Lab Job No. Report Date ☐ Average Reference 2 Pestalotia / Pestalotiopsis Nigrospora Average Reference 2 = Exterior, Northeast Myxomycete / Periconia / Rust / Smut Hyphal / Spore Fragments - Hyaline Supplemental Overview IAQ Mold Report Hyphal / Spore Fragments - Dematiaceous Ganoderma Exterior, Southeast Fusarium Average Reference 1 Epicoccum Exserohilum group Drechslera / Bipolaris / Helminthosporum / Curvularia Coprinus group Cladosporium McKamy Middle School Room 1120 Chaetomium Farmers Branch, TX 75234 Phone: (972) 241-8460 Sample Cercospora / Pseudocercospora Average Reference 1 = Exterior, Southeast Basidiospores Ensolum, LLC Aspergillus / Penicillium 01A1288173 2051 Valley View Lane Ascospores Moody Labs Alternaria Project #: Project: Client: 2500 2000 500 1500 1000



Torula TDLR License No.: LAB0117 AIHA EMPAT ID: 102577 Tetraploa Stachybotrys 10/04/2022 Sample Date: 09/30/2022 22F-11120 Spegazzinia Pithomyces Report Date Lab Job No. ☐ Average Reference 2 Pestalotia / Pestalotiopsis Nigrospora Average Reference 2 = Exterior, Northeast Myxomycete / Periconia / Rust / Smut Hyphal / Spore Fragments - Hyaline Supplemental Overview IAQ Mold Report Hyphal / Spore Fragments - Dematiaceous Ganoderma Room 1120 Fusarium Average Reference 1 Epicoccum Exserohilum group Drechslera / Bipolaris / Helminthosporum / Curvularia Coprinus group Cladosporium McKamy Middle School Room 1120 Farmers Branch, TX 75234 Phone: (972) 241-8460 Chaetomium Sample Cercospora / Pseudocercospora Average Reference 1 = Exterior, Southeast Basidiospores Ensolum, LLC End of Supplemental Overview section Aspergillus / Penicillium 01A1288173 2051 Valley View Lane Ascospores Moody Labs Alternaria Project #: Project: Client: 2500 2000 1500 200 1000



Chain of Custody

~ ~ ~ h	
Lab Job # 12 - 11/20	24
Lab Job #	3 AOC
Lab Job #	

*Please call						
BESTOS PL	M			MOLD		
M Air (740	<u> </u>	Analyze Ali	/ 3 day 5 day Positive Stop / 3 day 5 day	Direct Exa Standard A Expanded Culture** TPC w/ Ye	Air 🗆 Immed 🗀	1 day 2 day 5 day 1 day 2 day 5 day 1 day 2 day 5 day 1 day 10-14 days 5 day
	(0500/0600))			•	No
ir 7402 (Mo ulk	ethod Late dified) 1 1 Micro Vac 1	1 day 🔲 2 day	☐ 12 hr ☐ 24 hr y ☐ 3 day y ☐ 3 day ☐ 5 day	Coliform 8 Staphyloc	e Count (TAMC) & E. coli (P/A) occus aureus note Bateria / Mold Culture tuma analytical requ	2 day 1 day 1 day 1 day srounds are approximate and subject to
	alysis surcharges		LLC Dalles		Samples: 3 S	ample Date: 9 / 80 / 202
			ol Room 1120			01A1288 173
ontact Info	rmation: Nam	ne: Clint :	<u> </u>		Phone #:	
-mail Results	to: Clint	bacten	Ton: Mark	Α	Mobile #:	(972) 989-1031
			5010m - CDM b. Unsealed / Improperly package	1 / damaged / expire	P.O. #:	
	erwork and semples b	Sample Desc	s. Unsealed / Improperly packages	Vol. / Area (if applicable)	P.O. #: d samples or excessive administra	tive requests may incur additional fees*
lezse review pape otes:	Extenor,	Sample Desc	: Unsealed / Improperly package cription	Vol. / Area (if applicable)	P.O. #:_ d samples or excessive administra Location T=7761=277	n / Notes
lezse review pape otes:	Extenor,	Sample Desc	: Unsealed / Improperly package cription	Vol. / Area (if applicable)	P.O. #: d samples or excessive administra	n / Notes
state review pape otes: Sample #	Extenor,	Sample Desc	: Unsealed / Improperly package cription	Vol. / Area (if applicable)	P.O. #:_ d samples or excessive administra Location T=77*H=27*/ T=77*H=25*/	1 / Notes . Stt = 32 /. . Stt = 32 /. . Stt = 49 /. U = 11-11
Sample #	Extenor,	Sample Desc	: Unsealed / Improperly package cription	Vol. / Area (if applicable) 75	P.O. #:_ d samples or excessive administra Location T=77*H=27*/ T=77*H=25*/	1 / Notes . Stt = 32 /. . Stt = 32 /. . Stt = 49 /. U = 11-11
Sample #	Extenor,	Sample Desc	: Unsealed / Improperly package cription	Vol. / Area (if applicable) 75	P.O. #:_ d samples or excessive administra Location T=77 *H=271 T=77 *H=251 Ceilings · Ceiling Mells · Sheetye	1 / Notes . Stt = 34 /. . Stt = 32 /. . Stt = 49 /. M = 11 - 15
Sample #	Extenor,	Sample Desc	: Unsealed / Improperly package cription	Vol. / Area (if applicable) 75	P.O. #:_ d samples or excessive administra Location T=77 *H=271 T=77 *H=251 Ceilings · Ceiling Mells · Sheetye	1 / Notes . Stt = 34 /. . Stt = 32 /. . Stt = 49 /. M = 11 - 15
Sample #	Extenor,	Sample Desc	: Unsealed / Improperly package cription	Vol. / Area (if applicable) 75	P.O. #:_ d samples or excessive administration Location T=77 et=27/ T=77 et=27/ T=77 et=25/ Ceilings · Ceilin Whits · Showtre Flows = Floo Note: South	tive requests may incur additional fees* 1 / Notes 2 St = 37 /. St = 32 /. St = 49 /. M = 11-15 The Accorded of
Sample #	Extenor,	Sample Desc	: Unsealed / Improperly package cription	Vol. / Area (if applicable) 75	P.O. #:_ d samples or excessive administration Location T=77 et=27/ T=77 et=27/ T=77 et=25/ Ceilings · Ceilin Whits · Showtre Flows = Floo Note: South	1 / Notes . Stt = 34 /. . Stt = 32 /. . Stt = 49 /. M = 11 - 15
Sample #	Extenor,	Sample Desc	: Unsealed / Improperly package cription	Vol. / Area (if applicable) 75	P.O. #:_ d samples or excessive administration Location T=77 et=27/ T=77 et=27/ T=77 et=25/ Ceilings · Ceilin Whits · Showtre Flows = Floo Note: South	the requests may know additional fees. I Notes SH=37/. SH=32/. SH=49/. W= 11-1: THE Amounts of Ac Supply Usu B.
Sample #	Exterior, Exterior	Sample Desc	: Unsealed / Improperly package cription	Vol. / Area (if applicable) 75	P.O. #:_ d samples or excessive administra Location T=77 et=27/ T=77 et=27/ T=77 et=25/ Leilings · Ceilin Leilings · Ceil	the requests may know additional fees. I Notes SH=37/. SH=32/. SH=49/. W= 11-1: THE Amounts of Ac Supply Usu B.

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.