Independence Elementary Limited Mold Assessment Rooms 127 and 218

Treadway, David <treadwayd@lisd.net>

Wed 3/8/2023 9:02 AM

To: Winslow, Theodora <winslowt@lisd.net>;Mcalister, Catherine <mcalisterc@lisd.net>;Morris, Carly <morrisc@lisd.net>
Cc: Hughes, Jason <hughesjk@lisd.net>;Jones, Steven <jonessa@lisd.net>;Wiley, Richard <wileyr@lisd.net>;Chavira, Jennifer <chaviraj@lisd.net>;Cashman, Jinger <cashmans@lisd.net>

Mrs. Winslow,

Good morning. I am sending this email to follow up with the results of a limited mold assessment conducted in rooms 127 and 218. Ensolum LLC. conducted a limited mold assessment in rooms 127 and 218 on February 16th, 2023, 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 127 was ***24%*** and in Room 218 was ***41%*** of the outdoor levels. Utilizing this theory, the indoor concentration levels were within acceptable guidelines for areas with filtered or air-conditioned air. Even though the results are within guidelines, I recommend that the rooms be thoroughly cleaned and sanitized. I also recommend that the HVAC units for both rooms are cleaned and the filters changed. Please let me know if there are any more issues in these rooms or if you have any questions.

Sincerely,
David Treadway

David Treadway
LISD Environmental Coordinator
Facility Services Department

ENSOLUM

February 20, 2023

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

Re: Limited Mold Assessment Report
Independence Elementary School - Room 127 & 218
2511 Windhaven Pkwy.
Lewisville, TX 75056
Ensolum Project No. 01A1288179

Ensolum, LLC (Ensolum) was retained to perform limited mold assessment services within Room 127 and Room 218 of Independence Elementary School, 2511 Windhaven Pkwy., Lewisville, TX 75056. 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 127 and Room 218 of Independence Elementary School, 2511 Windhaven Pkwy., Lewisville, TX 75056. 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 February 16, 2023. 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 127 and Room 218. Water damage was observed in the following locations:

VISIBLE WATER DAMAGE		
LOCATION	DATE	EXPLANATION
Exterior East, Exterior West, Room 127, Room 218	2/16/2023	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, RELATIVE HUMIDITY & SPECIFIC HUMIDITY				
LOCATION	DATE	Temperature: F	Relative Humidity	Specific Humidity
Exterior, East	2/16/2023	46 °F	23%	10%
Exterior, West	2/16/2023	44 °F	20%	8%
Room 127	2/16/2023	66 °F	33%	31%
Room 218	2/16/2023	69 °F	18%	19%

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 TRAP LOCATIONS	
SAMPLE NUMBER	**LOCATION**
1	Exterior, East
2	Exterior, West
3	Room 127
4	Room 218

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 DATA

IAQ Mold Report

Summary

Moody Labs
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460
TDLR License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Ensolum, LLC
Project : Independence Elementary School, Room 127, Room 218
Project # : 01A1288179
Sample Type: Spore Trap, Non-cultured
Test Method: Mold: MLQ - 0112 - Standard Profile

Lab Job No. : 23F-01853
Report Date : 02/20/2023
Sample Date: 02/16/2023
Spore Trap Type: Zefon - Air-O-Cell

On 2/16/2023, 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.

Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter	
1	75	Exterior, East	Cladosporium	773	49%
			Aspergillus / Penicillium	480	31%
			Hyphal / Spore Fragments - Dematiaceous	240	15%
			Basidiospores	53	3%
			Myxomycete / Periconia / Rust / Smut	27	2%
			Total:	1573	100%
2	75	Exterior, West	Aspergillus / Penicillium	200	58%
			Hyphal / Spore Fragments - Dematiaceous	53	15%
			Cladosporium	53	15%
			Fusarium	13	4%
			Chaetomium	13	4%
			Basidiospores	13	4%
			Total:	345	100%
3	75	Room 127	Aspergillus / Penicillium	347	93%
			Cladosporium	27	7%
			Total:	374	100%

IAQ Mold Report

Summary

Moody Labs
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

TDLR License No.: LAB0117
AIHA EMPAT ID: 102577

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Sample Number	Volume (liters)	Sample Description	Identification	Concentration spores/cubic meter	
4	75	Room 218	Aspergillus / Penicillium	413	65%
			Hyphal / Spore Fragments - Dematiaceous	107	17%
			Basidiospores	53	8%
			Cladosporium	40	6%
			Myxomycete / Periconia / Rust / Smut	13	2%
			Pithomyces	13	2%
			Total:	639	100%

Analyst(s): Elham Mohammadian

Lab Director : Heather Lopez — Approved Signatory : Heather Lopez

Lab Director : Bruce Crabb — Approved Signatory : Bruce Crabb

End of Summary section (23F-01853)

Thank you for choosing Moody Labs

IAQ Mold Report

Data Detail

Moody Labs
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

TDLR License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Ensolum, LLC
Project : Independence Elementary School, Room 127, Room 218
Project # : 01A1288179
Sample Type: Spore Trap, Non-cultured
Test Method: Mold: MLQ - 0112 - Standard Profile

Lab Job No. : 23F-01853
Report Date : 02/20/2023
Sample Date: 02/16/2023
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.

Sample ID:	1					2					3				
Location:	Exterior, East					Exterior, West					Room 127				
Media Expires On:	Aug 2023					Aug 2023					Aug 2023				
Notes Included:															
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
Ascospores															
Aspergillus / Penicillium	36	13	480	31%	480	15	13	200	58%	200	26	13	347	93%	350
Basidiospores	4	13	53	3%	50	1	13	13	4%	10					
Chaetomium						1	13	13	4%	10					
Cladosporium	58	13	773	49%	770	4	13	53	15%	50	2	13	27	7%	30
Fusarium						1	13	13	4%	10					
Hyphal / Spore Fragments - Dematiaceous	18	13	240	15%	240	4	13	53	15%	50					
Hyphal / Spore Fragments - Hyaline															
Myxomycete / Periconia / Rust / Smut	2	13	27	2%	30										
Pithomyces															
Stachybotrys															
TOTALS	118		1573	100%	1600	26		345	100%	340	28		374	100%	370
Analyst	Elham Mohammadian					Elham Mohammadian					Elham Mohammadian				
Analysis Date	2/20/2023					2/20/2023					2/20/2023				
Debris Rating	2					1					3				
Debris Composition															
Fibers	1/5					1/5					2/5				
Inorganic/Other	2/5					1/5					2/5				
Insect Parts	0/5					0/5					0/5				
Pollen	0/5					0/5					0/5				
Skin/Dander	1/5					1/5					3/5				

IAQ Mold Report

Data Detail

Moody Labs
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460
TDLR License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Ensolum, LLC
Project : Independence Elementary School, Room 127, Room 218
Project # : 01A1288179
Sample Type: Spore Trap, Non-cultured
Test Method: Mold: MLQ - 0112 - Standard Profile

Lab Job No. : 23F-01853
Report Date : 02/20/2023
Sample Date: 02/16/2023
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.

Sample ID:	4																			
Location:	Room 218																			
Media Expires On:	Jan 2024																			
Notes Included:																				
Volume:	75																			
	Raw Ct	RL	spores/m³	%Total	spores/m³ SF															
Ascospores																				
Aspergillus / Penicillium	31	13	413	65%	410															
Basidiospores	4	13	53	8%	50															
Chaetomium																				
Cladosporium	3	13	40	6%	40															
Fusarium																				
Hyphal / Spore Fragments - Dematiaceous	8	13	107	17%	100															
Hyphal / Spore Fragments - Hyaline																				
Myxomycete / Periconia / Rust / Smut	1	13	13	2%	10															
Pithomyces	1	13	13	2%	10															
Stachybotrys																				
TOTALS	48		639	100%	640															
Analyst	Elham Mohammadian																			
Analysis Date	2/20/2023																			
Debris Rating	3																			
Debris Composition																				
Fibers	2/5																			
Inorganic/Other	3/5																			
Insect Parts	0/5																			
Pollen	0/5																			
Skin/Dander	2/5																			

End of Data Detail section
23F-01853

IAQ Mold Report

Analytical Notes

Moody Labs
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

TDLR License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Ensolum, LLC
Project : Independence Elementary School, Room 127, Room 218
Project # : 01A1288179
Sample Type: Spore Trap, Non-cultured
Test Method: Mold: MLQ - 0112 - Standard Profile

Lab Job No. : 23F-01853
Report Date : 02/20/2023
Sample Date : 02/16/2023
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.

NOTE: No abnormalities or exceptions noted during analysis. All samples suitable for analysis.

NOTE: No discernable field blanks were included with this sample set.

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.

IAQ Mold Report

Analytical Notes

Moody Labs
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460
TDLR License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Ensolum, LLC
Project : Independence Elementary School, Room 127, Room 218
Project # : 01A1288179
Sample Type: Spore Trap, Non-cultured
Test Method: Mold: MLQ - 0112 - Standard Profile

Lab Job No. : 23F-01853
Report Date : 02/20/2023
Sample Date : 02/16/2023
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 ID # 102577

End of Analytical Notes section
23F-01853

IAQ Mold Report

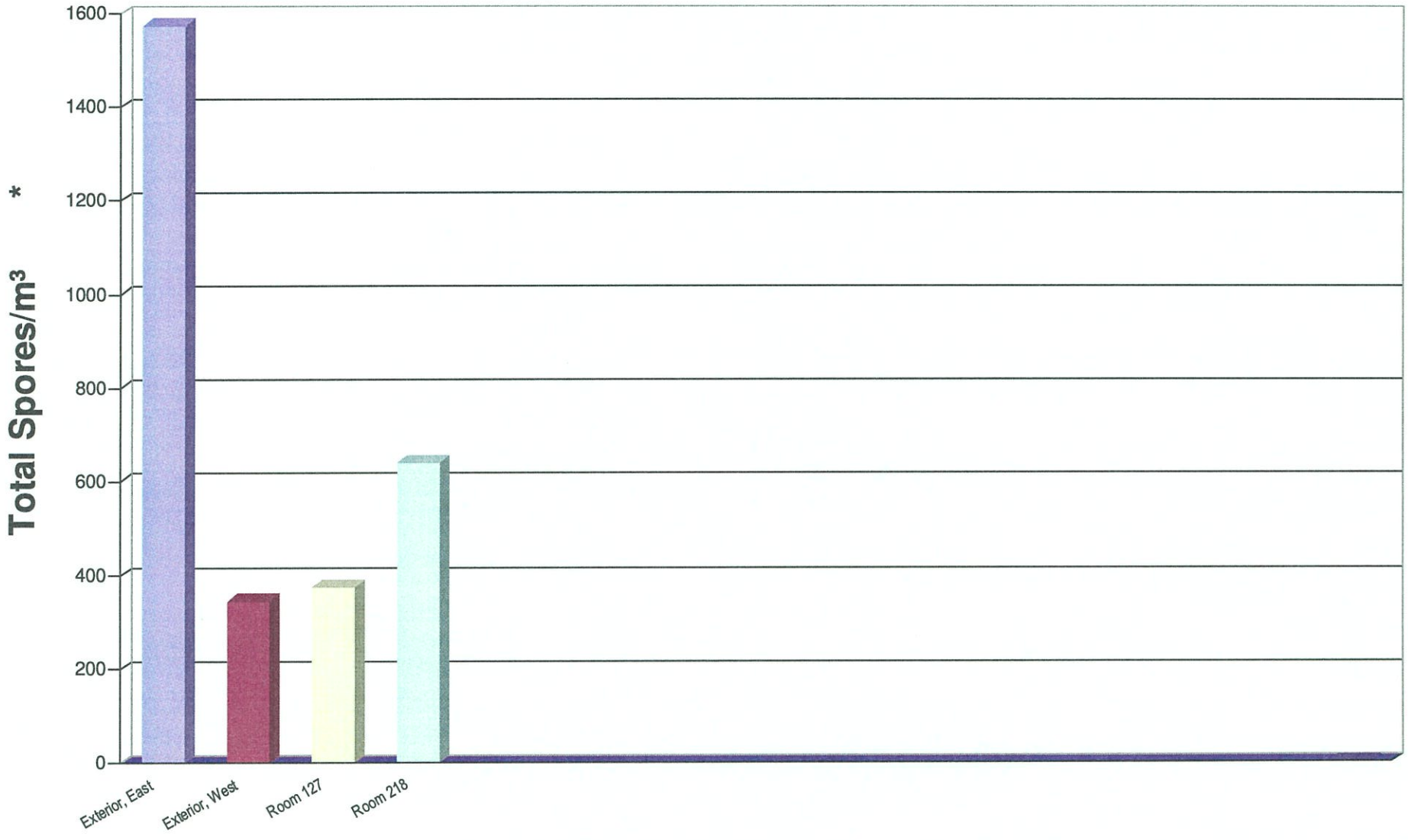
Supplemental Overview

Moody Labs
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

TDLR License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Ensolum, LLC
Project : Independence Elementary School, Room 127, Room 218
Project # : 01A1288179

Lab Job No. 23F-01853
Report Date 02/20/2023
Sample Date : 02/16/2023



Moody Labs
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

IAQ Mold Report

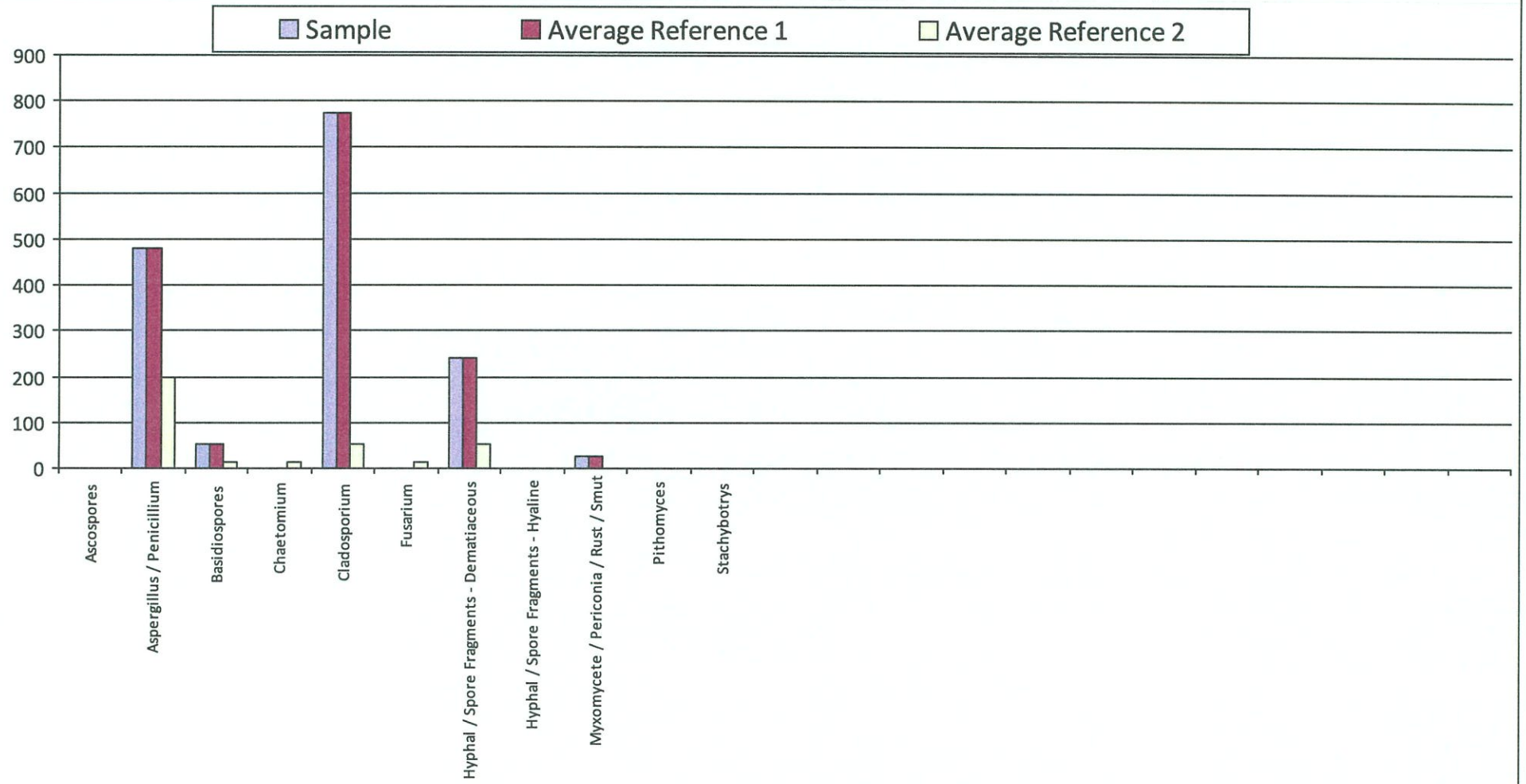
Supplemental Overview

TDLR License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Ensolum, LLC
Project : Independence Elementary School, Room 127, Room 218
Project # : 01A1288179

Exterior, East

Lab Job No. 23F-01853
Report Date 02/20/2023
Sample Date : 02/16/2023



Average Reference 1 = Exterior, East

Average Reference 2 = Exterior, West

Moody Labs
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

IAQ Mold Report

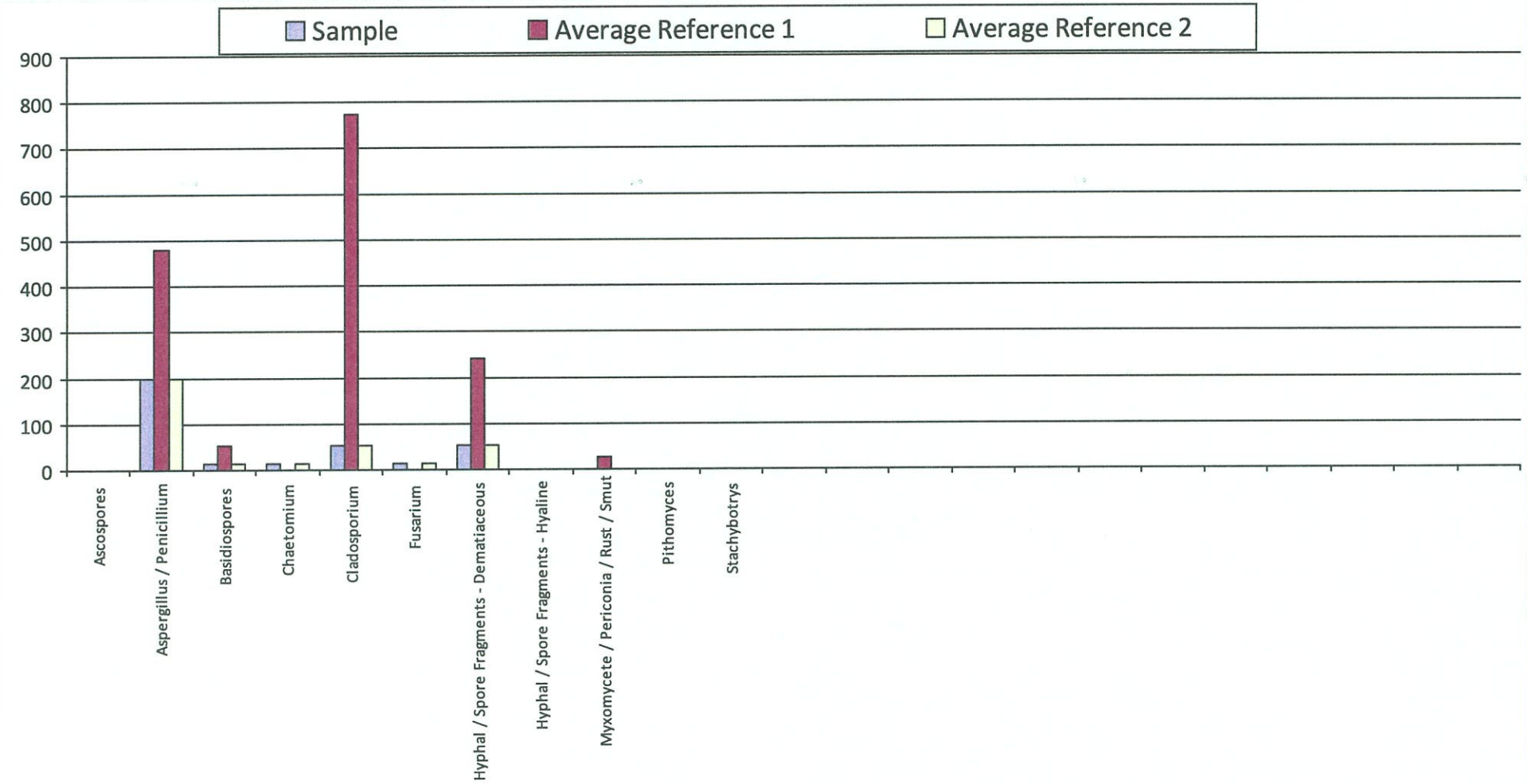
Supplemental Overview

TDLR License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Ensolum, LLC
Project : Independence Elementary School, Room 127, Room 218
Project # : 01A1288179

Exterior, West

Lab Job No. 23F-01853
Report Date 02/20/2023
Sample Date : 02/16/2023



Average Reference 1 = Exterior, East

Average Reference 2 = Exterior, West

Moody Labs
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

IAQ Mold Report

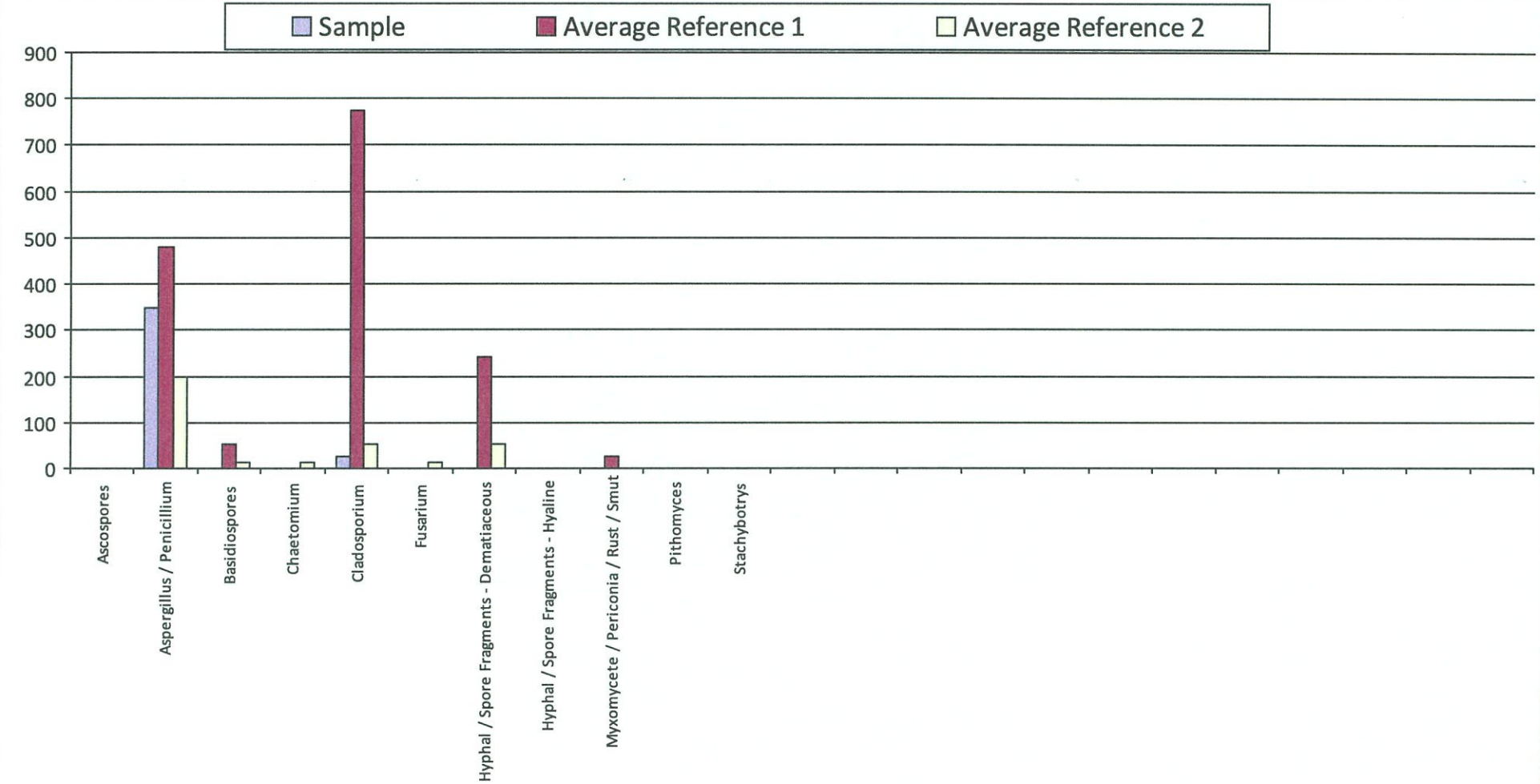
Supplemental Overview

TDLR License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Ensolum, LLC
Project : Independence Elementary School, Room 127, Room 218
Project # : 01A1288179

Lab Job No. 23F-01853
Report Date 02/20/2023
Sample Date : 02/16/2023

Room 127



Average Reference 1 = Exterior, East

Average Reference 2 = Exterior, West

Moody Labs
2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

IAQ Mold Report

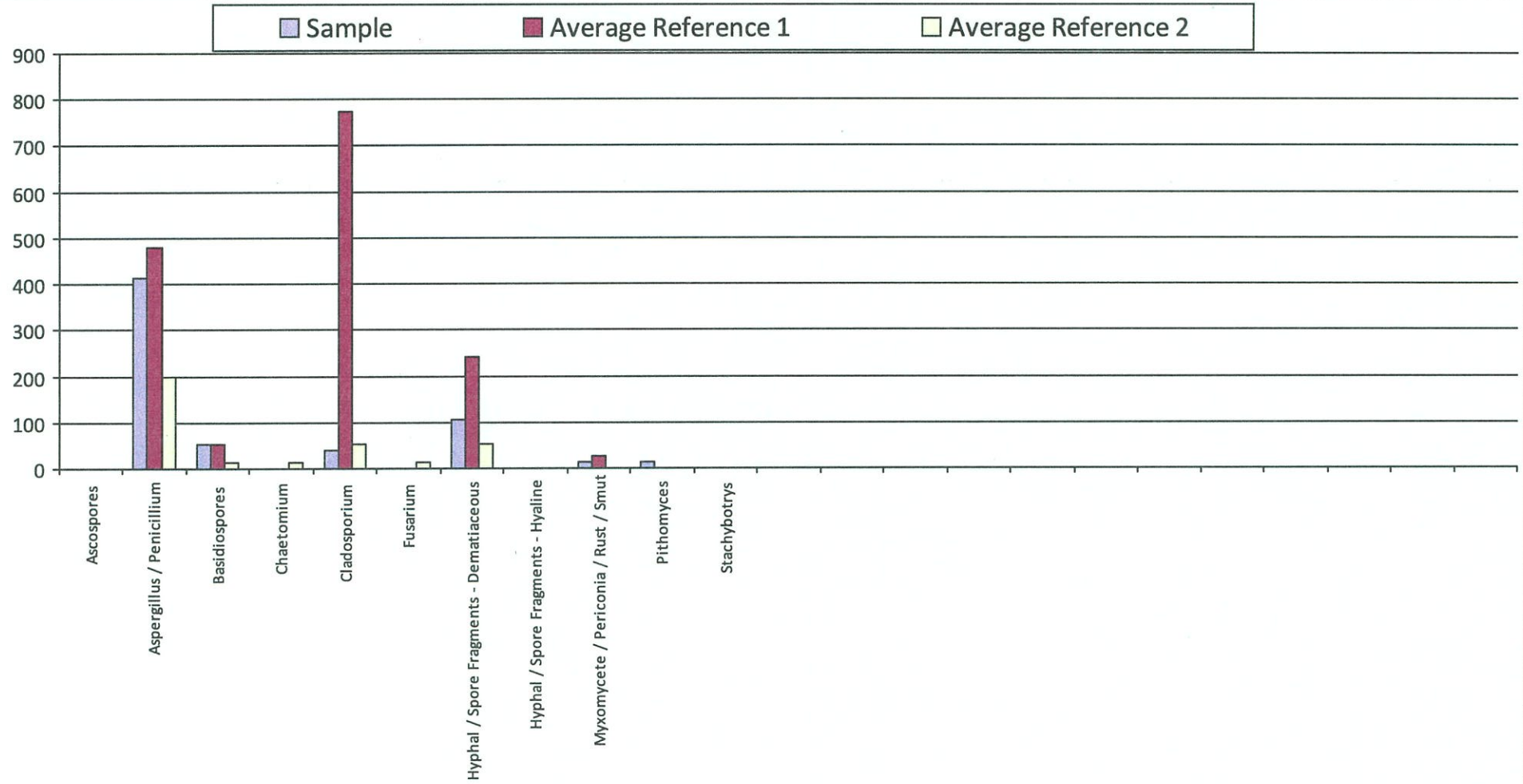
Supplemental Overview

TDLR License No.: LAB0117
AIHA EMPAT ID: 102577

Client : Ensolum, LLC
Project : Independence Elementary School, Room 127, Room 218
Project # : 01A1288179

Lab Job No. 23F-01853
Report Date 02/20/2023
Sample Date : 02/16/2023

Room 218



Average Reference 1 = Exterior, East

Average Reference 2 = Exterior, West

End of Supplemental Overview section
23F-01853

Moody Labs

Chain of Custody

Lab Job # 23F-01853
Lab Job # JR. AOC. 4
Lab Job #

AFTER HOURS / WEEKEND WORK: ☐ YES ☐ NO
Please call in advance for after hours / immediate pricing & availability

Page 1 of 1

ASBESTOS PLM

Bulk ☐ Immediate ☐ 1 day ☐ 2 day ☐ 3 day ☐ 5-7 day
☐ **Analyze All** ☐ **Positive Stop**

PCM Air (7400)

☐ Immediate ☐ 1 day ☐ 2 day ☐ 3 day ☐ 5 day
Analyze Blanks ☐ **Yes** ☐ **No**

TOTAL DUST(0500/0600)

☐ 1 day ☐ 2 day

ASBESTOS TEM

Air AHERA Method ☐ Late Night* ☐ 6 hr ☐ 12 hr ☐ 24 hr
Air 7402 (Modified) ☐ 1 day ☐ 2 day ☐ 3 day
Bulk ☐ 1 day ☐ 2 day ☐ 3 day ☐ 5 day
Water/Wipe/Micro Vac ☐ 1 day ☐ 2 day ☐ 3 day
Analyze Blanks ☐ **Yes** ☐ **No**

*Late night analysis surcharges apply

MOLD

Direct Exam	☐ Immed	☐ 1 day	☐ 2 day	☐ 5 day
Standard Air	☐ Immed	☐ 1 day	☒ 2 day	☐ 5 day
Expanded Air	☐ Immed	☐ 1 day	☐ 2 day	☐ 5 day
TPC w/ Yeast & Mold (TYMC)**				☐ 5 day
Culture**			☐ 10-14 days	

Analyze Blanks ☐ **Yes** ☐ **No**

BACTERIA**

Total Plate Count (TAMC)	☐ 2 day
Coliform & E. coli (P/A)	☐ 1 day
Coliform & E. coli (Q)	☐ 1 day
Enterococci (P/A)	☐ 1 day

Please note Bateria / Mold Culture turnarounds are approximate and subject to analytical requirements

OTHER:

Billing Company / City: Ensolum, LLC # of Samples: 4 Sample Date: 2/16/2023
Project: Independence Elementary School - Room 127 / Room 218 Project #: 01A1288179
Contact Information: Name: Clint Jeuh Phone #:
E-mail Results to: Clint / Darren / Toni Mobile #: (972) 989-1031
Invoice Address: Toni: P.O. #:

Please review paperwork and samples before submitting to lab. Unsealed / improperly packaged / damaged / expired samples or excessive administrative requests may incur additional fees

Notes:

Sample #	Sample Description	Vol. / Area (if applicable)	Location / Notes
1	Exterior, East	75	T= 46 °H= 23 %. SH= 10 %.
2	Exterior, West	75	T= 44 °H= 20 %. SH= 8 %.
3	Room 127	75	T= 66 °H= 33 %. SH= 31 %.
			M= 10-12 %.
			Ceilings = Ceiling Tile
			Walls = Sheetrock, Cork board over
			Sheetrock, CMU Block
			Floors = Carpet / Floor Tile
4	Room 218	75	T= 69 °H= 18 %. SH= 19 %.
			M= 6-13 %.
			Ceilings = Ceiling Tile
			Walls = Sheetrock / Cork board over
			Sheetrock CMU
			Floors = Carpet / Floor Tile

Released By:	Date / Time:	Received By:	Date / Time:
Released By:	2/16/2023 1711	Received By:	2/16/23 1711

APPENDIX B

DEFINITIONS AND LIMITATION

ENSOLUM

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.

APPENDIX C

LICENSES AND CERTIFICATIONS

TEXAS DEPARTMENT OF LICENSING AND REGULATION
P.O. Box 12157
Austin, Texas 78711-2157
1-800-803-9202 (512) 463-6599
www.tdlr.texas.gov

If you cut around the border of the license it will fit in a standard 5" x 7" frame.

ENSOLUM, LLC
SUITE 1203
2351 W NORTHWEST HWY
DALLAS TX 75220-4433

Rick Figueroa
Chair

Thomas F. Butler
Vice Chair

Gerald R. Callas, M.D., F.A.S.A.
Helen Callier
Nora Castañeda
Joel Garza
Gary F. Wesson, D.D.S., M.S.

Mold Assessment Company

ENSOLUM, LLC

2351 W NORTHWEST HWY SUITE 1203 DALLAS

License Number: ACO1138

The entity named above is licensed by the Texas Department of Licensing and Regulation.

License Expires: February 07, 2024

Brian E. Francis
Executive Director

Rick Figueroa
Chair

Thomas F. Butler
Vice Chair

Gerald R. Callas, M.D., F.A.S.A.
Helen Callier
Nora Castañeda
Joel Garza
Gary F. Wesson, D.D.S., M.S.

Mold Analysis Laboratory

MOODY LABS LLC

2051 VALLEY VIEW LN FARMERS BRANCH

License Number: LAB0117

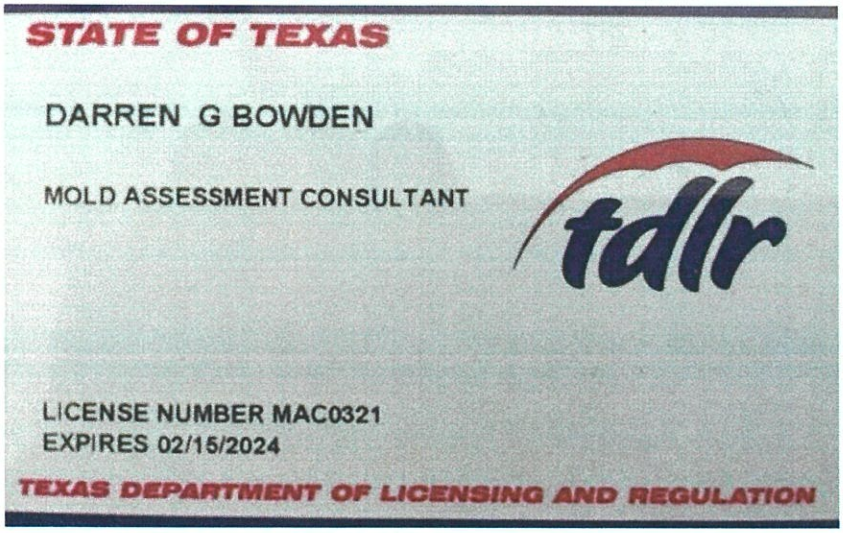
The entity named above is licensed by the Texas Department of Licensing and Regulation.

License Expires: March 01, 2024

Mike Arismendez, Jr.
Executive Director

ENSOLUM

Texas Department of Licensing and Regulation
Mold Assessment Consultant
Darren G Bowden
License No. MAC0321 Expires February 15, 2024



ENSOLUM

Texas Department of Licensing and Regulation
Mold Assessment Consultant
Clinton S Jech
License No. MAC1444 Expires October 9, 2023