Revised August 28, 2023

CBRE Limited
7765 Hurontario Street
Brampton, Ontario, L6W 4T6

Re: **Mould Air Sampling Letter**
Milton Ontario Court of Justice, 491 Steeles Avenue East, Milton, Ontario
Pinchin File: 331135

1.0 INTRODUCTION

Pinchin Ltd. (Pinchin) was retained by CBRE Limited (Client) to conduct mould air sampling within the Milton Ontario Court of Justice located at 491 Steeles Avenue East, Milton, Ontario. The sampling was undertaken to determine airborne fungal particulate concentrations within Courtroom 1 & 2 following the identification of several water-stained ceiling tiles in both Courtrooms and one mouldy ceiling tile in Courtroom 1. The sampling was performed by Pinchin on August 25, 2023. The mouldy ceiling tile was removed the evening of August 24, 2023.

2.0 METHODOLOGY

Airborne mould samples were taken using Allergenco-D brand impactor cassettes and a calibrated pump. Samples were collected in Courtroom 1 & Courtroom 2. One reference sample was collected outdoors for comparison purposes. One field blank was collected for quality control purposes.

The mould analysis was performed at the Pinchin Environmental Microbiology Laboratory, located in Mississauga, ON. The laboratory is independently accredited to ISO/IEC 17025:2017 for mould analysis by the American Industrial Hygiene Association Laboratory Accreditation Program LLC (AIHA LAP LLC) (Lab ID 158835),[1] and the Quebec government (Lab ID 495).[2]

The spore trap mould air sample results include a report from the Pinchin Ambient Mould Index database (PAMI) ©. PAMI is a compilation of over 36,000 outdoor spore trap mould air samples analyzed in the Pinchin laboratory, since 2006. The database has been analyzed by month and region (18 regions across Canada) to report statistical data on means, medians, confidence intervals, etc. As a measure of the

1 Accredited by the American Industrial Hygiene Association Laboratory Accreditation Program LLC (AIHA LAP LLC) under the Environmental Microbiology Laboratory Accreditation Program (EMLAP), for Bulk, Surface and Air testing for moulds, Escherichia coli, Legionella by the ISO 11731 method and for Legionella pneumophila by qPCR ISO 12869 method (Lab ID 158835).
2 Accredited by the Quebec government under the Programme d'accreditation des laboratoires d'analyses (PALA) program for Air Microbiology – domains 601, 603, 604, 605, 606.

ranges in outdoor mould concentrations, the PAMI data can assist in the interpretation of indoor mould air sample results.

3.0 RESULTS AND CONCLUSIONS

Mould spore concentrations in both Courtrooms were lower than, and consisted of similar spore types, as compared to the outdoor control samples and PAMI data. Sample results did not indicate an impact on air quality at the time of the testing and as a result is safe for occupancy.

The findings of this report should be communicated to the occupants as recommended by current mould guidelines, and in workplaces, as mandated by occupational health and safety legislation.

4.0 TERMS AND LIMITATIONS

This work was performed subject to the Terms and Limitations presented or referenced in the proposal for this project.

Information provided by Pinchin is intended for Client use only. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law. Any use by a third party of reports or documents authored by Pinchin or any reliance by a third party on or decisions made by a third party based on the findings described in said documents, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted. No other warranties are implied or expressed.

Sincerely,

Pinchin Ltd.

Prepared by:

Cheryl Britt, B.Sc., PCEM
Team Leader / Regional Practice Leader
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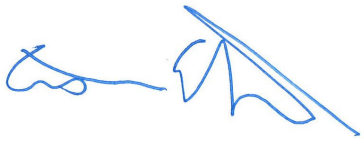
cbritt@pinchin.com

Reviewed by:



Adam Crawford, B.Sc., DOHS, CIH
Operations Manager, GTA IEQ
905.363.1309
acrawford@pinchin.com

Encl.: Analytical Results

Cc: Richard Borg CBRE Limited Richard.Borg@cbre.com

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Template: Master Mould Air Sampling Report, IEQ, February 5, 2021

PINCHIN
2555 Meadowpine Blvd. Unit 2
Mississauga, ON L5N 6C3
T: (905) 363-0678
E: microbiolab@pinchin.com

Certificate of Analysis

Pinchin Environmental Microbiology Laboratory

Laboratoire d'analyse accrédité par le gouvernement du Québec
Lab ID# 495

CUSTOMER: Cheryl Britt
COMPANY: Pinchin Ltd.
ADDRESS: 2360 Meadowpine Blvd., Unit 2
Mississauga, ON L5N 6S2

PROJECT NAME:
TYPE OF SAMPLES: AllergencoD
NO. OF SAMPLES: 4
DATE COLLECTED: August 25, 2023
DATE RECEIVED: August 25, 2023
DATE ANALYSED: August 25, 2023
DATE REPORTED: August 25, 2023

PROJECT NO: 331135
LAB REFERENCE NO: m298834
ANALYST: Inesa Liashko B.Eng.
Environmental Microbiologist
REVIEWER: Lubov Beliakov, CMS (PhD)
Environmental Microbiologist

CONDITION OF SAMPLES ON RECEIPT: Acceptable

Method of Analysis: Analysis of Air Samples for Fungal Spores (SOP: DME-SPT, Rev. 15, 16 May 2023)

This SOP is based on the method described in the AIHA's "Field Guide for the Determination of Biological Contaminants in the Environmental Samples" and also partially on the ASTM method D7391-20.
Results are not corrected for blanks. Estimation of the measurement of uncertainty is available upon request.

Comments/Observations (if any):

Notes:
1. The laboratory is not responsible for sample collection and sample information provided by the customer on the chain of custody.
2. The report applies to the samples submitted to the laboratory and, the result(s) relate only to sample(s) tested.
3. The report shall not be reproduced except in full, without written approval of the laboratory.
4. Services are subject to Pinchin Ltd. Standard Terms and Conditions for Laboratory Services.

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Certificate of Analysis

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Lab ID# 495

DATE ANALYSED: August 25, 2023 **ANALYST:** Inesa Liashko B.Eng.

PROJECT NO: 331135
LAB REFERENCE NO: m298834

Customer Sample No:	4866136			4866169			4866315			4866231											
Lab Sample ID:	m298834-1			m298834-2			m298834-3			m298834-4											
Description	Courtroom #1			Courtroom #2			Outdoor			Blank											
Total Air Volume (L)	150			150			150			N/A											
% of Sample Counted	25.4			25.4			25.4			25.4											
Fungal spores identified	raw ct.	%	ct./m^3	raw ct.	%	ct./m^3	raw ct.	%	ct./m^3	raw ct.	%	ct./m^3	raw ct.	%	ct./m^3	raw ct.	%	ct./m^3	raw ct.	%	ct./m^3
Alternaria/Ulocladium-like							3	1	79												
Ascospores, non-specified	2	6	52	5	9	130	44	11	1200												
Aspergillus/Penicillium-like																					
Basidiospores, non-specified	29	88	760	45	78	1200	217	52	5700												
Bipolaris/Drechslera/ Exserohilum/Helminthosporium																					
Botrytis																					
Cercospora							1	0	26												
Chaetomium-like																					
Cladosporium	2	6	52	3	5	79	141	34	3700												
Coprinus				1	2	26	2	0	52												
Epicoccum				1	2	26															
Fusarium-like																					
Ganoderma							4	1	110												
Helicospores							2	0	52												
Myxomycetes/Periconia/Rusts/Smuts				3	5	79	2	0	52												
Non-specified spores																					
Oidium-like																					
Pithomyces-like																					
Polythrincium																					
Stachybotrys																					
Pollens							1														
Fungal fragments							1		26												
Non-fungal material	2			2			3														
Spores/sample	33			58			416														
TOTAL SPORES/M^3			860			1500			11000	No fungal spores											
A.S. (SPORES/M^3)			26			26			26												

Note: 1. Samples analysed at 600X magnification. 2. A.S. = Analytical Sensitivity
3. Total spores/m^3 and counts/m^3 reported to two significant figures where applicable

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tel: 905.363.0678 email: microbiolab@pinchin.com
1.855.PINCHIN www.pinchin.com

Environmental Microbiology Laboratory
Chain of Custody Form

M298834

REPORT RESULTS TO					
Contact: Cheryl Britt ✓			Dept: IEQ		
Company: Pinchin Ltd.			Tel: 365.873.0327	Fax:	
Mailing Address:			Email: cbritt@pinchin.com		
City:	Prov:	Postal Code:	Customer Job / P.O. #: 331135 ✓		

Special Instructions:	Project:
Report Language: English ☑ French ☐ / No. Samples Submitted: 4	Invoice To:

ANALYSIS TYPES (check)	
☑ Total Fungal Particulate (Spore count and Identification)	☐ Bacteria (Quantification/Gram staining)
☐ Direct Microscope Examination (Fungal)	☐ Heterotrophic Plate Counts (HPC)
☐ Direct Microscope Examination (NON-Fungal Particulate, Qualitative)	☐ E.coli/Total Coliforms
☐ Direct Microscope Examination (Soot, Qualitative)	
☐ Fungal Quantification & Identification (Anderson/RCS)	☐ Legionella: Culturing ☐ qPCR ☐
☐ Other: _____	

Sample#	Description	Date Sampled	Vol (L) or Area (cm^2)	TAT REG.	TAT RUSH	FOR LAB USE ONLY LAB #
4866136	Courtroom #1	08/25/23	150	☐	☑	M298834-1
4866169	Courtroom #2	08/25/23	150	☐	☑	2
4866315	Outdoor	08/25/23	150	☐	☑	3
4866231	Blank	08/25/23	0	☐	☑	4
				☐	☐	
				☐	☐	
				☐	☐	
				☐	☐	
				☐	☐	
				☐	☐	
				☐	☐	
				☐	☐	

CHAIN OF CUSTODY			
Collected by:		FOR LAB USE ONLY: ✓	
Relinquished by:	Date/Time:	Received by:	Date/Time: 8/25/23 - 12:43
Method of Shipment:		Sample Condition Upon Receipt:	Acceptable ☑ Other (explain) ☐

Authorized by: Cheryl Britt **Date:** Aug. 25, 2023

Customer Signature MUST Accompany Request. Customer accepts Pinchin Ltd. Standard Terms and Conditions for Laboratory Services (see over)

Distribution: White = Laboratory, Yellow = Customer Copy

Rev 15 8/15/23

Pinchin Ambient Mould Index (PAMI) ©

Region:	Greater Toronto Area
Month:	August
# Samples:	763
Period:	2006 – 2018

Mould/Groups Recorded	Frequency of detects (%)	Min (spores/m^3)	5th percentile (spores/m^3)	50th percentile (spores/m^3)	95th percentile (spores/m^3)	Max (spores/m^3)
Basidiospores non-specified	99.74	26	870	9360	40046	154971
Ascospores non-specified	99.61	52	314	1432	8000	77486
Cladosporium	99.48	26	208	1988	12348	74000
Ganoderma	98.56	26	79	445	2043	8229
Aspergillus/Penicillium-like	90.04	26	46	320	2105	10549
Coprinus	81.13	26	26	130	741	5257
Non-specified spores	72.48	26	26	185	2099	12400
Alternaria/Ulocladium-like	62.65	26	26	79	411	2057
Myxomycetes/Periconia/Rusts/Smuts	56.49	26	26	78	385	9600
Epicoccum	27.65	26	26	43	171	1243
Polythrincium	20.84	26	26	43	192	2100
Cercospora	20.58	26	26	52	216	1100
Pithomyces-like	18.22	26	26	49	207	1300
Oidium-like	13.24	26	26	52	290	460
Arthrinium	10.75	26	26	43	264	523
Helicospores	8.91	26	26	34	127	190
Botrytis	8.39	26	26	48	171	430
Torula	7.47	26	26	49	174	343
Fusicladium	2.75	26	26	26	86	149
Curvularia	2.36	26	26	26	72	86
Fusarium-like	2.36	26	26	32	238	290
Nigrospora	2.10	26	26	26	73	86
Stemphylium	1.97	26	26	53	447	690
Bipolaris/Drechslera/ Exserohilum/Helminthosporium	1.97	26	26	26	154	290
Peronospora	1.83	26	26	36	156	264
Chaetomium-like	1.31	26	26	26	369	607
Scopulariopsis	0.92	26	26	53	155	185
Urocystis	0.39	26	26	26	61	65
Spegazzinia	0.13	26	26	26	26	26
Exosporiella	0.13	26	26	26	26	26

Based on detection limit of 26 spores per cubic metre of air.