



HYGIENETECH

Hygiene Technologies International, Inc.

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May 25, 2016

California State Board of Equalization
450 N Street
Sacramento, California 94279

Document No. 21512001.1

Attention: Edna B. Murphy
Deputy Director Administration Department

Regarding: Limited Fungal Growth Exposure Assessment Surveys
December 2015 Random Sampling

Dear Ms. Murphy:

On December 2, 9, 18 and 23, 2015, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted limited fungal growth exposure assessment surveys involving 21 randomly selected areas located within the California State Board of Equalization (BOE) building. The findings of the surveys, along with the analytical data, conclusions, and recommendations when applicable, appear below.

On the survey dates, air samples were collected for total (viable and nonviable) fungi analyses using a Zefon brand Bio-Pump Plus™ equipped with Air-O-Cell™ cassettes. All such samples were subsequently analyzed for fungi (including yeasts, molds, rusts, smuts, and mushrooms) by trained and experienced microbiologists at a laboratory accredited by the American Industrial Hygiene Association (AIHA) and that successfully participates in the AIHA Environmental Microbiology Proficiency Analytical Testing (EMPAT) Program. The airborne fungi assessment analytical data with supporting and background information appear in the enclosed table.

As presented in Table 21512001-1, the airborne spore count data recorded showed fungal spore types outdoors such as *Alternaria*, ascospores, basidiospores, *Chaetomium*, *Cladosporium*, colorless spores typical of *Penicillium/Aspergillus* species, *Epicoccum*, *Nigrospora*, *Oidium*, other brown, and/or smuts. In the indoor areas tested, the data showed that airborne fungal spores were either not detected at or above the laboratory detection limit indicated or were detected at low airborne concentrations. The fungal spore types found indoor included ascospores, basidiospores, *Cladosporium*, colorless spores typical of *Penicillium/Aspergillus* species, other brown, *Nigrospora*, and/or smuts. The distribution of fungal spore types detected in the surveyed areas was consistent with those found outdoors, and the overall data within the tested areas were well below the overall outdoor data recorded. These data are considered unremarkable and are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.



Be advised that the data provided in this report only represent limited fungal growth and exposure potentials that existed at the time these surveys were performed and at the precise sample locations indicated. Note that fungal growth and exposure potentials may change due to changes in environmental conditions (such as those caused by water intrusion), use of mechanical systems, or other factors. Also be advised that additional fungal growth may exist at one or more locations in the structure that were not specifically assessed during the surveys.

If you have any comments or questions regarding the information contained in this correspondence, please feel free to contact our offices directly at (310) 370-8370.

Sincerely,

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

A handwritten signature in black ink, appearing to read 'Kenny', followed by a stylized flourish that extends to the right and ends in a horizontal line.

Kenny K. Hsi, CIH
Technical Director

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



CLIENT: California State Board of Equalization
450 N Street
Sacramento, California 94279

TABLE 21512001-1
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
DECEMBER 2, 9, 18, AND 23, 2015

Page 1

Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	21512001-1 TM01OUT	21512001-1 TM02	21512001-1 TM03	21512001-1 TM04
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 20 feet northeast of main entrance; approximately five feet above ground/Normal outdoor activities	2 nd Floor; Column L18 area; adjacent to Column L18; approximately five feet above floor/Normal office activities	3 rd Floor; northern corridor adjacent to northwestern drinking fountain; approximately five feet above floor/Normal office activities	4 th Floor; Column N22 area; Cubicle 43; approximately five feet above floor/Normal office activities
DATE	12/02/15	12/02/15	12/02/15	12/02/15
START/STOP	12:38:00/12:43:00	12:48:00/12:53:00	13:01:00/13:06:00	13:10:00/13:15:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	67			
Ascospores	160			
Basidiospores	1,100	53		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium	13			
Cladosporium	2,200	53		53
Curvularia				
Epicoccum	13			
Fusarium				
Nigrospora	13			
Oidium				
Other brown	13			
Other colorless				
Penicillium/Aspergillus types	530			
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	13		13	
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	120	<13	<13	13
Background debris*	2+	2+	2+	2+
TOTAL**	4,100	110	13	53

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

**Note that all reported counts have been rounded to no more than two significant figures based on the sampling and analytical methods used, and therefore the total count may not equal the sum of the individual counts in a column.

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450 N STREET
SACRAMENTO, CALIFORNIA
DECEMBER 2, 9, 18, AND 23, 2015

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Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	21512001-1 TM05	21512001-1 TM06	21512001-1 TM07	21512001-1 TM08OUT
SAMPLING LOCATION/ACTIVITIES	5 th Floor; Conference Room 502; about center; approximately five feet above floor/Normal office activities	6 th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	22 nd Floor; Column K22 area; Cubicle 72; approximately five feet above floor/Normal office activities	Outdoors; about 25 feet east of the building; approximately five feet above ground/Normal outdoor activities
DATE	12/02/15	12/02/15	12/02/15	12/09/15
START/STOP	13:22:00/13:27:00	13:33:00/13:38:00	13:57:00/14:02:00	10:45:00/10:50:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores				3,300
Basidiospores				3,600
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53	110	53	4,500
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium				13
Other brown				
Penicillium/Aspergillus types				850
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)		13		40
Stachybotrys				
Stemphylium				
Torula				
Trichocladium				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13	<13	<13
Background debris*	2+	2+	2+	2+
TOTAL**	53	120	53	12,000

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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SACRAMENTO, CALIFORNIA
DECEMBER 2, 9, 18, AND 23, 2015

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Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	21512001-1 TM09	21512001-1 TM10	21512001-1 TM11	21512001-1 TM12
SAMPLING LOCATION/ACTIVITIES	1 st Floor; High-Rise Elevator Lobby; about center; approximately five feet above floor/Normal office activities	24 th Floor; Room 2427; area adjacent to Room 2435 and 2436; approximately five feet above floor/Normal office activities	23 rd Floor; Northern corridor adjacent to Room 2322; approximately five feet above floor/Normal office activities	21 st Floor; Room 2102; adjacent to Column K21; approximately five feet above floor/Normal office activities
DATE	12/09/15	12/09/15	12/09/15	12/09/15
START/STOP	10:55:00/11:00:00	11:03:00/11:08:00	11:10:00/11:15:00	11:18:00/11:23:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores	53			
Basidiospores	110			53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53			
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium				
Other brown	13			
Penicillium/Aspergillus types		160	53	
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	13	<13	13	<13
Background debris*	2+	2+	3+	2+
TOTAL**	230	160	53	53

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	21512001-1 TM13	21512001-1 TM14	21512001-1 TM15	21512001-1 TM16
SAMPLING LOCATION/ACTIVITIES	19 th Floor; Column N18 area; adjacent to Column N18; approximately five feet above floor/Normal office activities	17 th Floor; Column K22 area; adjacent to Column N18; approximately five feet above floor/Normal office activities	14 th Floor; Column N19 area; adjacent to Column N19; approximately five feet above floor/Normal office activities	11 th Floor; Column N18 area; adjacent to Cubicle 95; approximately five feet above floor/Normal office activities
DATE	12/09/15	12/09/15	12/18/15	12/18/15
START/STOP	11:28:00/11:33:00	11:37:00/11:42:00	13:03:00/13:08:00	13:14:00/13:19:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		53	110	
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Other brown				
Other colorless				
Penicillium/Aspergillus types	53			
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13	<13	<13
Background debris*	2+	2+	2+	2+
TOTAL**	53	53	110	<13

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	21512001-1 TM17	21512001-1 TM18	21512001-1 TM19	21512001-1 TM20OUT
SAMPLING LOCATION/ACTIVITIES	9 th Floor; Column K19; adjacent to Cubicle 38; approximately five feet above floor/Normal office activities	8 th Floor; Column K19 area; adjacent to Column K19; approximately five feet above floor/Normal office activities	7 th Floor; Column M18 area; Cubicle 101; about center; approximately five feet above floor/Normal office activities	Outdoors; about 10 feet east of the building; approximately five feet above ground/Normal outdoor activities
DATE	12/18/15	12/18/15	12/18/15	12/18/15
START/STOP	13:49:00/13:54:00	13:56:00/14:01:00	14:08:00/14:13:00	14:23:00/14:28:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores				910
Basidiospores				1,100
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53			3,000
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora			13	
Oidium				13
Other brown				13
Penicillium/Aspergillus types				2,200
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stemphylium				
Stachybotrys				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13	<13	13
Background debris*	2+	2+	2+	2+
TOTAL **	53	<13	13	7,300

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	21512001-1 TM21	21512001-1 TM22	21512001-1 TM23	21512001-1 TM24
SAMPLING LOCATION/ACTIVITIES	10 th Floor; Break Room 1004; about center; approximately five feet above floor/Normal office activities	18 th Floor; Column K22 area; between Room 1822 and Cubicle 76; approximately five feet above floor/ Normal office activities	16 th Floor; Column N18 area; adjacent to Column N18; approximately five feet above floor/Normal office activities	15 th Floor; Column N20 area; adjacent to Cubicle 1 entry area; approximately feet above floor/Normal office activities
DATE	12/23/15	12/23/15	12/23/15	12/23/15
START/STOP	12:20:00/12:25:00	12:30:00/12:35:00	12:39:00/12:44:00	12:50:00/12:55:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores				
Basidiospores			53	53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium				
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types		53		53
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	27	<13	<13	<13
Background debris*	2+	2+	2+	3+
TOTAL**	<13	53	53	110

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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SACRAMENTO, CALIFORNIA
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Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	21512001-1 TM25OUT			
SAMPLING LOCATION/ACTIVITIES	Outdoor; about 10 feet west of building; approximately five feet above ground/Normal outdoor activities	This column intentionally left blank	This column intentionally left blank	This column intentionally left blank
DATE	12/23/15			
START/STOP	13:01:00/13:06:00			
SAMPLE TIME	5 minutes			
Alternaria				
Ascospores	430			
Basidiospores	1,800			
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	910			
Curvularia				
Epicoccum	13			
Helicoma				
Myrothecium				
Nigrospora				
Oidium				
Other brown	13			
Penicillium/Aspergillus types	53			
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	13			
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	13			
Background debris*	3+			
TOTAL**	3,200			

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

**Note that all reported counts have been rounded to no more than two significant figures based on the sampling and analytical methods used, and therefore the total count may not equal the sum of the individual counts in a column.



Report for:

Mr. Paramveer Cheema
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21512001-1
EML ID: 1462851

Approved by:

Dates of Analysis:
Spore trap analysis: 12-03-2015

Technical Manager
Louise White

Service SOPs: Spore trap analysis (EM-MY-S-1038)
AIHA-LAP, LLC accredited service, Lab ID #179768

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

EMLab P&K's LabServe® reporting system includes automated fail-safes to ensure that all AIHA-LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Paramveer Cheema
Re: 21512001-1

Date of Sampling: 12-02-2015
Date of Receipt: 12-03-2015
Date of Report: 12-03-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21512001-1TM01OUT		21512001-1TM02		21512001-1TM03		21512001-1TM04	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	6754056-1		6754057-1		6754058-1		6754059-1	
Analysis Date:	12/03/2015		12/03/2015		12/03/2015		12/03/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	5	67						
Ascospores	3	160						
Basidiospores	20	1,100	1	53				
Chaetomium	1	13						
Cladosporium	42	2,200	1	53			1	53
Epicoccum	1	13						
Myrothecium								
Nigrospora	1	13						
Other brown	1	13						
Other colorless								
Penicillium/Aspergillus types†	10	530						
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes	1	13			1	13		
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		2+		2+		2+	
Hyphal fragments/m3	120		< 13		< 13		13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		4,100		110		13		53

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Paramveer Cheema
 Re: 21512001-1

Date of Sampling: 12-02-2015
 Date of Receipt: 12-03-2015
 Date of Report: 12-03-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21512001-1TM05		21512001-1TM06		21512001-1TM07	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6754060-1		6754061-1		6754062-1	
Analysis Date:	12/03/2015		12/03/2015		12/03/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores						
Chaetomium						
Cladosporium	1	53	2	110	1	53
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other brown						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes			1	13		
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		53		120		53

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

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§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

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C/O: Mr. Paramveer Cheema
Re: 21512001-1

Date of Sampling: 12-02-2015
Date of Receipt: 12-03-2015
Date of Report: 12-03-2015

MoldRANGE™: Extended Outdoor Comparison**Outdoor Location: 21512001-1TM01OUT**

Fungi Identified	Outdoor data	Typical Outdoor Data for: December in California† (n‡=14704)						Typical Outdoor Data for: The entire year in California† (n‡=214484)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	67	13	13	27	53	80	43	13	13	27	63	100	53
Bipolaris/Drechslera group	-	7	13	13	27	40	10	7	13	13	27	50	12
Chaetomium	13	8	13	13	27	40	13	8	13	13	27	50	19
Cladosporium	2,200	110	210	690	2,100	3,700	96	110	210	610	1,700	2,800	97
Curvularia	-	10	13	13	27	40	4	7	13	13	27	53	6
Epicoccum	13	10	13	13	40	53	15	8	13	13	38	53	19
Nigrospora	13	7	13	13	25	40	7	7	13	13	27	53	9
Other brown	13	13	13	13	40	53	31	13	13	13	40	53	34
Penicillium/Aspergillus types	530	53	110	270	720	1,200	86	53	100	210	610	1,000	84
Stachybotrys	-	8	13	13	40	80	3	7	13	13	33	67	4
Torula	-	8	13	13	40	53	5	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	160	27	53	160	670	1,400	70	25	53	110	370	700	71
Basidiospores	1,100	53	110	490	3,000	6,900	94	53	80	270	1,000	2,400	93
Rusts	-	11	13	13	40	55	18	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	13	13	13	38	80	160	61	13	13	40	110	210	68
§ TOTAL SPORES/m3	4,100												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Paramveer Cheema
 Re: 21512001-1

Date of Sampling: 12-02-2015
 Date of Receipt: 12-03-2015
 Date of Report: 12-03-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21512001-1TM01OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				67	7 - 40 - 590	45
Ascospores				160	13 - 210 - 6,100	76
Basidiospores				1,100	13 - 430 - 23,000	92
Chaetomium				13	7 - 13 - 160	9
Cladosporium				2,200	27 - 480 - 10,000	90
Epicoccum				13	7 - 26 - 350	24
Nigrospora				13	7 - 13 - 240	16
Other brown				13	7 - 17 - 130	24
Penicillium/Aspergillus types				530	13 - 170 - 2,600	68
Smuts, Periconia, Myxomycetes				13	7 - 53 - 940	64
Total				4,100		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurrence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 21512001-1TM02

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)		
Result: 2%	dF: 5 Result: 2.4762 Critical value: 11.0705 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: 0.8030 Critical value: 0.5515 Outside Similar: Yes	Score: 103 Result: Low		
Species Detected		Spores/m3				
		<100	1K	10K	>100K	
	Basidiospores					53
	Cladosporium					53
	Total					110

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Paramveer Cheema
 Re: 21512001-1

Date of Sampling: 12-02-2015
 Date of Receipt: 12-03-2015
 Date of Report: 12-03-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21512001-1TM03

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: <1%	dF: 5 Result: 2.4762 Critical value: 11.0705 Inside Similar: Yes	Result: 0.1818	dF: 10 Result: 0.2727 Critical value: 0.5515 Outside Similar: No	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Smuts, Periconia, Myxomycetes					13
Total					13

Location: 21512001-1TM04

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 5 Result: 2.4762 Critical value: 11.0705 Inside Similar: Yes	Result: 0.1818	dF: 10 Result: 0.6970 Critical value: 0.5515 Outside Similar: Yes	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Total					53

Location: 21512001-1TM05

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 5 Result: 2.4762 Critical value: 11.0705 Inside Similar: Yes	Result: 0.1818	dF: 10 Result: 0.6970 Critical value: 0.5515 Outside Similar: Yes	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Total					53

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Paramveer Cheema
 Re: 21512001-1

Date of Sampling: 12-02-2015
 Date of Receipt: 12-03-2015
 Date of Report: 12-03-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21512001-1TM06

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 2%	dF: 5 Result: 2.4762 Critical value: 11.0705 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: 0.4788 Critical value: 0.5515 Outside Similar: No	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					110
Smuts, Periconia, Myxomycetes					13
Total					120

Location: 21512001-1TM07

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 5 Result: 2.4762 Critical value: 11.0705 Inside Similar: Yes	Result: 0.1818	dF: 10 Result: 0.6970 Critical value: 0.5515 Outside Similar: Yes	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Total					53

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Paramveer Cheema
Re: 21512001-1Date of Sampling: 12-02-2015
Date of Receipt: 12-03-2015
Date of Report: 12-03-2015**MoldSTAT™: Supplementary Statistical Spore Trap Report**

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&K reserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Paramveer Cheema
 Re: 21512001-1

Date of Sampling: 12-02-2015
 Date of Receipt: 12-03-2015
 Date of Report: 12-03-2015

MoldSCORE™: Spore Trap Report

Location: 21512001-1TM03

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			Score
	<100	1K	10K	>100K			100	200	300	
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					1	13				103
Total						13				103
							Final MoldSCORE			103

Location: 21512001-1TM04

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			Score
	<100	1K	10K	>100K			100	200	300	
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				102
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
Total						53				102
							Final MoldSCORE			102

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Paramveer Cheema
 Re: 21512001-1

Date of Sampling: 12-02-2015
 Date of Receipt: 12-03-2015
 Date of Report: 12-03-2015

MoldSCORE™: Spore Trap Report

Location: 21512001-1TM05

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13	█		100
Bipolaris/Drechslera group					ND	< 13	█		100
Chaetomium					ND	< 13	█		100
Cladosporium	█				1	53	█		102
Curvularia					ND	< 13	█		100
Nigrospora					ND	< 13	█		100
Penicillium/Aspergillus types†					ND	< 13	█		100
Stachybotrys					ND	< 13	█		100
Torula					ND	< 13	█		100
Seldom found growing indoors**									
Ascospores					ND	< 13	█		100
Basidiospores					ND	< 13	█		100
Rusts					ND	< 13	█		100
Smuts, Periconia, Myxomycetes					ND	< 13	█		100
Total						53			
							Final MoldSCORE		102

Location: 21512001-1TM06

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13	█		100
Bipolaris/Drechslera group					ND	< 13	█		100
Chaetomium					ND	< 13	█		100
Cladosporium	█				2	110	█		103
Curvularia					ND	< 13	█		100
Nigrospora					ND	< 13	█		100
Penicillium/Aspergillus types†					ND	< 13	█		100
Stachybotrys					ND	< 13	█		100
Torula					ND	< 13	█		100
Seldom found growing indoors**									
Ascospores					ND	< 13	█		100
Basidiospores					ND	< 13	█		100
Rusts					ND	< 13	█		100
Smuts, Periconia, Myxomycetes	█				1	13	█		103
Total						120			
							Final MoldSCORE		103

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Paramveer Cheema
 Re: 21512001-1

Date of Sampling: 12-02-2015
 Date of Receipt: 12-03-2015
 Date of Report: 12-03-2015

MoldSCORE™: Spore Trap Report

Location: 21512001-1TM07

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium	█				1	53	█			102
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores					ND	< 13	█			100
Basidiospores					ND	< 13	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes					ND	< 13	█			100
Total						53				
							Final MoldSCORE	102		

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Chun Lau, Mr. Lakhpreet Sandhu
 Re: 21512001-1

Date of Sampling: 12-09-2015
 Date of Receipt: 12-09-2015
 Date of Report: 12-10-2015

MoldSCORE™: Spore Trap Report

Location: 21512001-1 -TM10

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium					ND	< 13			100
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†	█				3	160	█		124
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores					ND	< 13			100
Basidiospores					ND	< 13			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
Total						160			Final MoldSCORE 124

Location: 21512001-1 -TM11

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium					ND	< 13			100
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†	█				1	53	█		108
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores					ND	< 13			100
Basidiospores					ND	< 13			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
Total						53			Final MoldSCORE 108

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Chun Lau, Mr. Lakhpreet Sandhu
 Re: 21512001-1

Date of Sampling: 12-09-2015
 Date of Receipt: 12-09-2015
 Date of Report: 12-10-2015

MoldSCORE™: Spore Trap Report

Location: 21512001-1 -TM12

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium					ND	< 13			100
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†					ND	< 13			100
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores					ND	< 13			100
Basidiospores					1	53			104
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
Total						53			
							Final MoldSCORE		104

Location: 21512001-1 -TM13

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium					ND	< 13			100
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†					1	53			108
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores					ND	< 13			100
Basidiospores					ND	< 13			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
Total						53			
							Final MoldSCORE		108

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Chun Lau, Mr. Lakhpreet Sandhu
 Re: 21512001-1

Date of Sampling: 12-09-2015
 Date of Receipt: 12-09-2015
 Date of Report: 12-10-2015

MoldSCORE™: Spore Trap Report

Location: 21512001-1 -TM14

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				102
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
Total						53				
										Final MoldSCORE 102

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Chun Lau, Mr. Lakhpreet Sandhu
 Re: 21512001-1

Date of Sampling: 12-09-2015
 Date of Receipt: 12-09-2015
 Date of Report: 12-10-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21512001-1 -TM08OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores					13 - 210 - 6,100	76
Basidiospores					13 - 430 - 23,000	92
Cladosporium					27 - 480 - 10,000	90
Oidium					7 - 13 - 210	11
Penicillium/Aspergillus types					13 - 170 - 2,600	68
Smuts, Periconia, Myxomycetes					7 - 53 - 940	64
Total						

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurrence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 21512001-1 -TM09

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 5 Result: 4.4857 Critical value: 11.0705 Inside Similar: Yes	Result: 0.6000	dF: 7 Result: 0.6875 Critical value: 0.6786 Outside Similar: Yes	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					53
Basidiospores					110
Cladosporium					53
Other brown					13
Total					230

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Chun Lau, Mr. Lakhpreet Sandhu
 Re: 21512001-1

Date of Sampling: 12-09-2015
 Date of Receipt: 12-09-2015
 Date of Report: 12-10-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21512001-1 -TM10

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 5 Result: 4.4857 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.2000 Critical value: 0.7714 Outside Similar: No	Score: 124 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Penicillium/Aspergillus types					160
Total					160

Location: 21512001-1 -TM11

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 5 Result: 4.4857 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.2000 Critical value: 0.7714 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Penicillium/Aspergillus types					53
Total					53

Location: 21512001-1 -TM12

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 5 Result: 4.4857 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.5429 Critical value: 0.7714 Outside Similar: No	Score: 104 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Total					53

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Chun Lau, Mr. Lakhpreet Sandhu
 Re: 21512001-1

Date of Sampling: 12-09-2015
 Date of Receipt: 12-09-2015
 Date of Report: 12-10-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21512001-1 -TM13

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 5 Result: 4.4857 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.2000 Critical value: 0.7714 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Penicillium/Aspergillus types					53
Total					53

Location: 21512001-1 -TM14

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 5 Result: 4.4857 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.7143 Critical value: 0.7714 Outside Similar: No	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Total					53

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Chun Lau, Mr. Lakhpreet Sandhu
Re: 21512001-1

Date of Sampling: 12-09-2015
Date of Receipt: 12-09-2015
Date of Report: 12-10-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&K reserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Chun Lau, Mr. Lakhpreet Sandhu
Re: 21512001-1

Date of Sampling: 12-09-2015
Date of Receipt: 12-09-2015
Date of Report: 12-10-2015

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21512001-1 -TM08OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: December in California† (n‡=14704)						Typical Outdoor Data for: The entire year in California† (n‡=214484)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	13	13	27	53	80	43	13	13	27	63	100	53
Bipolaris/Drechslera group	-	7	13	13	27	40	10	7	13	13	27	50	12
Chaetomium	-	8	13	13	27	40	13	8	13	13	27	50	19
Cladosporium	4,500	110	210	690	2,100	3,700	96	110	210	610	1,700	2,800	97
Curvularia	-	10	13	13	27	40	4	7	13	13	27	53	6
Nigrospora	-	7	13	13	25	40	7	7	13	13	27	53	9
Other brown	-	13	13	13	40	53	31	13	13	13	40	53	34
Penicillium/Aspergillus types	850	53	110	270	720	1,200	86	53	100	210	610	1,000	84
Stachybotrys	-	8	13	13	40	80	3	7	13	13	33	67	4
Torula	-	8	13	13	40	53	5	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	3,300	27	53	160	670	1,400	70	25	53	110	370	700	71
Basidiospores	3,600	53	110	490	3,000	6,900	94	53	80	270	1,000	2,400	93
Oidium	13	10	13	13	27	53	7	13	13	13	47	75	19
Rusts	-	11	13	13	40	55	18	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	40	13	13	38	80	160	61	13	13	40	110	210	68
§ TOTAL SPORES/m3	12,000												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.



Report for:

Mr. Chun Lau, Mr. Lakhpreet Sandhu
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21512001-1
EML ID: 1465806

Approved by:

Dates of Analysis:
Spore trap analysis: 12-10-2015

Technical Manager
Louise White

Service SOPs: Spore trap analysis (EM-MY-S-1038)
AIHA-LAP, LLC accredited service, Lab ID #179768

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

EMLab P&K's LabServe® reporting system includes automated fail-safes to ensure that all AIHA-LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Chun Lau, Mr. Lakhpreet Sandhu
Re: 21512001-1

Date of Sampling: 12-09-2015
Date of Receipt: 12-09-2015
Date of Report: 12-10-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21512001-1 - TM08OUT		21512001-1 -TM09		21512001-1 -TM10		21512001-1 -TM11	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	6768630-1		6768631-1		6768632-1		6768633-1	
Analysis Date:	12/10/2015		12/10/2015		12/10/2015		12/10/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores	61	3,300	1	53				
Basidiospores	68	3,600	2	110				
Chaetomium								
Cladosporium	85	4,500	1	53				
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Oidium	1	13						
Other brown			1	13				
Other colorless								
Penicillium/Aspergillus types†	16	850			3	160	1	53
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes	3	40						
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		2+		2+		3+	
Hyphal fragments/m3	< 13		13		< 13		13	
Pollen/m3	< 13		< 13		< 13		13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		12,000		230		160		53

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Chun Lau, Mr. Lakhpreet Sandhu
 Re: 21512001-1

Date of Sampling: 12-09-2015
 Date of Receipt: 12-09-2015
 Date of Report: 12-10-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21512001-1 -TM12		21512001-1 -TM13		21512001-1 -TM14	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6768634-1		6768635-1		6768636-1	
Analysis Date:	12/10/2015		12/10/2015		12/10/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores						
Basidiospores	1	53				
Chaetomium						
Cladosporium					1	53
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Oidium						
Other brown						
Other colorless						
Penicillium/Aspergillus types†			1	53		
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		53		53		53

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.



Report for:

Mr. Wesley Frey, Mr. Lakhpreet Sandhu
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21512001; Random Sampling
EML ID: 1470387

Approved by:

Dates of Analysis:
Spore trap analysis: 12-21-2015

Technical Manager
Louise White

Service SOPs: Spore trap analysis (EM-MY-S-1038)
AIHA-LAP, LLC accredited service, Lab ID #179768

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

EMLab P&K's LabServe® reporting system includes automated fail-safes to ensure that all AIHA-LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Wesley Frey, Mr. Lakhpreet Sandhu
 Re: 21512001; Random Sampling

Date of Sampling: 12-18-2015
 Date of Receipt: 12-18-2015
 Date of Report: 12-21-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21512001-TM15		21512001-TM16		21512001-TM17	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6791684-1		6791685-1		6791686-1	
Analysis Date:	12/21/2015		12/21/2015		12/21/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores						
Basidiospores						
Chaetomium						
Cladosporium	2	110			1	53
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Oidium						
Other brown						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		110		< 13		53

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Wesley Frey, Mr. Lakhpreet Sandhu
 Re: 21512001; Random Sampling

Date of Sampling: 12-18-2015
 Date of Receipt: 12-18-2015
 Date of Report: 12-21-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21512001-TM18		21512001-TM19		21512001-TM20OUT	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6791687-1		6791688-1		6791689-1	
Analysis Date:	12/21/2015		12/21/2015		12/21/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores					17	910
Basidiospores					21	1,100
Chaetomium						
Cladosporium					57	3,000
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora			1	13		
Oidium					1	13
Other brown					1	13
Other colorless						
Penicillium/Aspergillus types†					41	2,200
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	< 13		< 13		13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	1+		1+		< 1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		< 13		13		7,300

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Wesley Frey, Mr. Lakhpreet Sandhu
Re: 21512001; Random Sampling

Date of Sampling: 12-18-2015
Date of Receipt: 12-18-2015
Date of Report: 12-21-2015

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21512001-TM20OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: December in California† (n‡=14704)						Typical Outdoor Data for: The entire year in California† (n‡=214484)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	13	13	27	53	80	43	13	13	27	63	100	53
Bipolaris/Drechslera group	-	7	13	13	27	40	10	7	13	13	27	50	12
Chaetomium	-	8	13	13	27	40	13	8	13	13	27	50	19
Cladosporium	3,000	110	210	690	2,100	3,700	96	110	210	610	1,700	2,800	97
Curvularia	-	10	13	13	27	40	4	7	13	13	27	53	6
Nigrospora	-	7	13	13	25	40	7	7	13	13	27	53	9
Other brown	13	13	13	13	40	53	31	13	13	13	40	53	34
Penicillium/Aspergillus types	2,200	53	110	270	720	1,200	86	53	100	210	610	1,000	84
Stachybotrys	-	8	13	13	40	80	3	7	13	13	33	67	4
Torula	-	8	13	13	40	53	5	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	910	27	53	160	670	1,400	70	25	53	110	370	700	71
Basidiospores	1,100	53	110	490	3,000	6,900	94	53	80	270	1,000	2,400	93
Oidium	13	10	13	13	27	53	7	13	13	13	47	75	19
Rusts	-	11	13	13	40	55	18	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	-	13	13	38	80	160	61	13	13	40	110	210	68
§ TOTAL SPORES/m3	7,300												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Wesley Frey, Mr. Lakhpreet Sandhu
 Re: 21512001; Random Sampling

Date of Sampling: 12-18-2015
 Date of Receipt: 12-18-2015
 Date of Report: 12-21-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21512001-TM20OUT:

Species detected	Outdoor sample spores/m ³				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores				910	13 - 210 - 6,100	76
Basidiospores				1,100	13 - 430 - 23,000	92
Cladosporium				3,000	27 - 480 - 10,000	90
Oidium				13	7 - 13 - 210	11
Other brown				13	7 - 19 - 130	25
Penicillium/Aspergillus types				2,200	13 - 170 - 2,600	68
Smuts, Periconia, Myxomycetes				< 13	7 - 53 - 930	64
Total				7,300		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurrence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m³.

Indoor Samples

Location: 21512001-TM15

% of outdoor total spores/m ³	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 4 Result: 1.6000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.7286 Critical value: 0.7714 Outside Similar: No	Score: 104 Result: Low	
Species Detected		Spores/m ³			
		<100	1K	10K	>100K
	Cladosporium				110
	Total				110

Location: 21512001-TM16

% of outdoor total spores/m ³	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 1.6000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m ³			
		<100	1K	10K	>100K
	None Detected				< 13

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Wesley Frey, Mr. Lakhpreet Sandhu
 Re: 21512001; Random Sampling

Date of Sampling: 12-18-2015
 Date of Receipt: 12-18-2015
 Date of Report: 12-21-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21512001-TM17

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 1.6000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.7286 Critical value: 0.7714 Outside Similar: No	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Total					53

Location: 21512001-TM18

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 1.6000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
None Detected					< 13

Location: 21512001-TM19

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 1.6000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: 7 Result: -0.0536 Critical value: 0.6786 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Nigrospora					13
Total					13

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Wesley Frey, Mr. Lakhpreet Sandhu
Re: 21512001; Random Sampling

Date of Sampling: 12-18-2015
Date of Receipt: 12-18-2015
Date of Report: 12-21-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

****** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

******* The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

******** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&K reserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Wesley Frey, Mr. Lakhpreet Sandhu
 Re: 21512001; Random Sampling

Date of Sampling: 12-18-2015
 Date of Receipt: 12-18-2015
 Date of Report: 12-21-2015

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21512001-TM20OUT

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					ND	< 13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					57	3,000
Curvularia					ND	< 13
Nigrospora					ND	< 13
Other brown					1	13
Penicillium/Aspergillus types†					41	2,200
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores					17	910
Basidiospores					21	1,100
Oidium					1	13
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes					ND	< 13
Total						7,280

Location: 21512001-TM15

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					ND	< 13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					2	110
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					ND	< 13
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores					ND	< 13
Basidiospores					ND	< 13
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes					ND	< 13
Total						107

MoldSCORE‡			
100	200	300	Score
			100
			100
			100
			104
			100
			100
			100
			100
			100
			100
			100
			100
			100
			100
Final MoldSCORE			104

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Wesley Frey, Mr. Lakhpreet Sandhu
 Re: 21512001; Random Sampling

Date of Sampling: 12-18-2015
 Date of Receipt: 12-18-2015
 Date of Report: 12-21-2015

MoldSCORE™: Spore Trap Report

Location: 21512001-TM16

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium					ND	< 13			100
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†					ND	< 13			100
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores					ND	< 13			100
Basidiospores					ND	< 13			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
Total						N/A			Final MoldSCORE 100

Location: 21512001-TM17

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium					1	53			102
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†					ND	< 13			100
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores					ND	< 13			100
Basidiospores					ND	< 13			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
Total						53			Final MoldSCORE 102

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Wesley Frey, Mr. Lakhpreet Sandhu
 Re: 21512001; Random Sampling

Date of Sampling: 12-18-2015
 Date of Receipt: 12-18-2015
 Date of Report: 12-21-2015

MoldSCORE™: Spore Trap Report

Location: 21512001-TM18

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13	█		100
Bipolaris/Drechslera group					ND	< 13	█		100
Chaetomium					ND	< 13	█		100
Cladosporium					ND	< 13	█		100
Curvularia					ND	< 13	█		100
Nigrospora					ND	< 13	█		100
Penicillium/Aspergillus types†					ND	< 13	█		100
Stachybotrys					ND	< 13	█		100
Torula					ND	< 13	█		100
Seldom found growing indoors**									
Ascospores					ND	< 13	█		100
Basidiospores					ND	< 13	█		100
Rusts					ND	< 13	█		100
Smuts, Periconia, Myxomycetes					ND	< 13	█		100
Total						N/A			
							Final MoldSCORE		100

Location: 21512001-TM19

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13	█		100
Bipolaris/Drechslera group					ND	< 13	█		100
Chaetomium					ND	< 13	█		100
Cladosporium					ND	< 13	█		100
Curvularia					ND	< 13	█		100
Nigrospora	█				1	13	█		105
Penicillium/Aspergillus types†					ND	< 13	█		100
Stachybotrys					ND	< 13	█		100
Torula					ND	< 13	█		100
Seldom found growing indoors**									
Ascospores					ND	< 13	█		100
Basidiospores					ND	< 13	█		100
Rusts					ND	< 13	█		100
Smuts, Periconia, Myxomycetes					ND	< 13	█		100
Total						13			
							Final MoldSCORE		105

Client: Hygiene Technologies International, Inc.
C/O: Mr. Wesley Frey, Mr. Lakhpreet Sandhu
Re: 21512001; Random Sampling

Date of Sampling: 12-18-2015
Date of Receipt: 12-18-2015
Date of Report: 12-21-2015

MoldSCORE™: Spore Trap Report

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.



Report for:

Mr. Wesley Frey
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21512001
EML ID: 1472622

Approved by:

Dates of Analysis:
Spore trap analysis: 12-29-2015

Technical Manager
Louise White

Service SOPs: Spore trap analysis (EM-MY-S-1038)
AIHA-LAP, LLC accredited service, Lab ID #179768

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

EMLab P&K's LabServe® reporting system includes automated fail-safes to ensure that all AIHA-LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Wesley Frey
 Re: 21512001

Date of Sampling: 12-23-2015
 Date of Receipt: 12-24-2015
 Date of Report: 12-29-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21512001-TM21		21512001-TM22		21512001-TM23		21512001-TM24		21512001-TM25OUT	
Comments (see below)	None		None		None		None		None	
Lab ID-Version‡:	6802051-1		6802052-1		6802053-1		6802054-1		6802055-1	
Analysis Date:	12/29/2015		12/29/2015		12/29/2015		12/29/2015		12/29/2015	
	raw ct.	spores/m3	raw ct.	spores/m3						
Ascospores									8	430
Basidiospores					1	53	1	53	34	1,800
Chaetomium										
Cladosporium									17	910
Curvularia										
Epicoccum									1	13
Fusarium										
Myrothecium										
Nigrospora										
Other brown									1	13
Other colorless										
Penicillium/Aspergillus types†			1	53			1	53	1	53
Pithomyces										
Rusts										
Smuts, Periconia, Myxomycetes									1	13
Stachybotrys										
Stemphylium										
Torula										
Ulocladium										
Zygomycetes										
Background debris (1-4+)††	2+		2+		2+		3+		3+	
Hyphal fragments/m3	27		< 13		< 13		< 13		13	
Pollen/m3	< 13		< 13		< 13		< 13		13	
Skin cells (1-4+)	1+		1+		1+		1+		< 1+	
Sample volume (liters)	75		75		75		75		75	
§ TOTAL SPORES/m3		< 13		53		53		110		3,200

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Wesley Frey
Re: 21512001

Date of Sampling: 12-23-2015
Date of Receipt: 12-24-2015
Date of Report: 12-29-2015

MoldRANGE™, California Climate: Extended Outdoor Comparison

(Patent Pending)

Outdoor Location: 21512001-TM25OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: December in California† Köppen-Geiger climate code ¹ "Csa" Mediterranean/hot summer (n‡=812)						Typical Outdoor Data for: The entire year in California† Köppen-Geiger climate code ¹ "Csa" Mediterranean/hot summer (n‡=12717)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Project zip code 94279	spores/m3												
Generally able to grow indoors*													
Alternaria	-	13	13	27	53	80	52	13	13	27	67	110	64
Bipolaris/Drechslera group	-	7	9	13	27	53	11	7	13	13	27	40	14
Chaetomium	-	7	13	13	27	37	14	8	13	13	27	40	23
Cladosporium	910	110	210	640	2,200	4,300	97	110	230	690	1,700	2,800	98
Curvularia	-	13	13	13	27	40	5	7	13	13	27	53	8
Epicoccum	13	8	13	13	41	80	24	8	13	13	38	53	25
Nigrospora	-	7	8	13	20	27	10	7	13	13	40	100	12
Other brown	13	8	13	13	27	49	33	8	13	13	33	53	36
Penicillium/Aspergillus types	53	53	100	240	670	1,400	83	53	67	210	500	850	85
Stachybotrys	-	7	10	13	24	40	5	7	13	13	27	53	6
Torula	-	8	13	13	27	67	5	8	13	13	40	67	15
Seldom found growing indoors**													
Ascospores	430	27	53	230	1,300	2,700	67	13	40	110	400	800	73
Basidiospores	1,800	53	110	640	4,800	10,000	91	50	80	270	1,100	2,700	94
Rusts	-	13	13	13	53	80	20	8	13	17	53	80	32
Smuts, Periconia, Myxomycetes	13	13	13	40	110	190	74	13	17	53	130	240	78
§ TOTAL SPORES/m3	3,200												

†Köppen-Geiger climate codes are based upon a climate classification scheme for large geographic areas. The "MoldRANGE, California Climate" report uses the sampling location zipcode to identify the Köppen-Geiger climate code in that area. Because California has such diverse climates, this approach sharpens the precision of the MoldRANGE reporting system, providing more reliable estimates of the range and average concentrations of the different airborne fungal spore types for each region. Additional information on the Köppen-Geiger climate classification system can be found on the last page of this report.

‡The Typical Outdoor Data represents the typical outdoor spore levels across North America for the time period and climate code indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

‡ n is the sample size used to calculate the MoldRange, California Climate data summarized in the table.

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Wesley Frey
Re: 21512001

Date of Sampling: 12-23-2015
Date of Receipt: 12-24-2015
Date of Report: 12-29-2015

Understanding Köppen-Geiger Climate Codes

Outdoor airborne fungal spore concentrations are strongly influenced by climate and weather patterns, often resulting in pronounced seasonal and diurnal cycles (Burge, 1995). The seasonal climatic changes directly affect the growth cycles of plants, thereby influencing fungal growth, spore maturation and release cycles. By evaluating outdoor spore concentration across similar climatic zones, rather than for the state as a whole, it is possible to provide a more precise and reliable estimate of typical outdoor spore levels and the frequency of occurrence for different airborne fungal spore types in a given area.

A widely used system for classifying climate was developed in the late nineteenth century by the climatologist Wladimir Köppen. He later collaborated with another climatologist Rudolf Geiger in making modifications to his original system. As new climatic data has become available other individuals have submitted revisions and modifications to this system which are commonly referred to as modified Köppen-Geiger climate classification systems.

The Köppen-Geiger climate classification system is a widely used system that provides an objective numerical definition of climate types in terms of climatic elements such as temperature, rainfall, and other seasonal characteristics. The modified Köppen-Geiger climate classification system adopted here includes 6 major climate categories designated by a capital letter:

- A Tropical
- B Dry
- C Mediterranean (Temperate)
- D Continental (Temperate)
- E Polar
- H Timberline

In order to represent the main climatic types, additional letter designations are added. Except for the Dry climates and Polar climates the second letter refers to rainfall regime. The second letter for Dry climates differentiates Dry Steppe climates from Dry Desert climates. The second letter for Polar climates differentiates Polar Tundra climates from Polar Ice climates. For all 6 major climate categories the third letter refers to temperature characteristics, and the fourth to special features of the climate.

California is unique in that it has a more diverse array of climate types than any other state. Based upon data mapped by the California Department of Fish and Game (2003), California displays 11 distinct climate types as defined by a modified Köppen-Geiger climate classification system:

- BSh Semi-arid, steppe hot
- BSk Semi-arid, steppe
- BSkn Semi-arid, steppe w/summer fog
- BWh Arid low latitude desert hot
- BWk Arid mid latitude desert
- Csa Mediterranean/hot summer
- Csb Mediterranean/cool summer
- Csbn Mediterranean/summer fog
- Dsb Cool continental/dry summer
- Dsc Cold winter/dry summer
- H Highland/Timberline

This report groups California zip codes in relation to these climate codes and summarizes the MoldRANGE™ data by month and by year within each climate code.

REFERENCES

California Department of Fish and Game, Atlas of the Biodiversity of California, p. 15, 2003.
Burge, Harriet A. Bioaerosols. Boca Raton: Lewis Publishers, pp. 163-171, 1995.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Wesley Frey
 Re: 21512001

Date of Sampling: 12-23-2015
 Date of Receipt: 12-24-2015
 Date of Report: 12-29-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21512001-TM25OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores				430	13 - 210 - 6,100	76
Basidiospores				1,800	13 - 430 - 23,000	92
Cladosporium				910	27 - 480 - 10,000	90
Epicoccum				13	7 - 27 - 350	24
Other brown				13	7 - 19 - 130	25
Penicillium/Aspergillus types				53	13 - 170 - 2,600	68
Smuts, Periconia, Myxomycetes				13	7 - 53 - 930	64
Total				3,200		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurrence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 21512001-TM21

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 3 Result: 2.4000 Critical value: 7.8147 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
None Detected		<100	1K	10K	>100K
					< 13

Location: 21512001-TM22

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 3 Result: 2.4000 Critical value: 7.8147 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.3482 Critical value: 0.6786 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
Penicillium/Aspergillus types		<100	1K	10K	>100K
Total					53
					53

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21512001-TM23

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 3 Result: 2.4000 Critical value: 7.8147 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.7232 Critical value: 0.6786 Outside Similar: Yes	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Total					53

Location: 21512001-TM24

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 3%	dF: 3 Result: 2.4000 Critical value: 7.8147 Inside Similar: Yes	Result: 0.4444	dF: 7 Result: 0.5982 Critical value: 0.6786 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Penicillium/Aspergillus types					53
Total					110

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

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MoldSTAT™: Supplementary Statistical Spore Trap Report

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&K reserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

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MoldSCORE™: Spore Trap Report

Location: 21512001-TM22

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium					ND	< 13			100
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†	█				1	53			108
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores					ND	< 13			100
Basidiospores					ND	< 13			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
Total						53			
Final MoldSCORE								108	

Location: 21512001-TM23

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
Generally able to grow indoors*									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium					ND	< 13			100
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†					ND	< 13			100
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
Seldom found growing indoors**									
Ascospores					ND	< 13			100
Basidiospores	█				1	53			103
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
Total						53			
Final MoldSCORE								103	

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MoldSCORE™: Spore Trap Report

Location: 21512001-TM24

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					1	53				108
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores					ND	< 13				100
Basidiospores					1	53				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
Total						107				Final MoldSCORE 108

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

Cherry Hill, NJ: 1936 Olney Avenue, Cherry Hill, NJ 08003 * (866) 871-1984
Phoenix, AZ: 1501 West Knudson Drive, Phoenix, AZ 85027 * (800) 651-4802
San Bruno, CA: 1150 Bayhü Drive, #100, San Bruno, CA 94066 * (866) 888-6653

Weather	Fog	Rain	Snow	Wind	Clear
None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Light	<input type="checkbox"/>				
Moderate	<input type="checkbox"/>				
Heavy	<input type="checkbox"/>				

REQUESTED
(Use checkmarks)

Non-Culturable: Culture:

Spore Trap: Tape Swab Bulk:

BioCassette™, And Water, Bulk, Dust, E

001462851

CONTACT INFORMATION

Company: Hygiene Tech Address: 3625 Del Amo Ste 180 Torrance
Contact: Param Cheema Special Instructions:
Phone: 310 213 2212

PROJECT INFORMATION **TURN-AROUND TIME CODES (TAT)**

Project ID: 21512001-1 **STD** - Standard (DEFAULT)
Project Description: Air sampling total fungi **ND** - Next Business Day
Project Zip Code: **SD** - Same Business Day Rush
PO Number: **WH** - Weekend / Holiday

Sampling Date & Time: 12/02 12:00
Sampled By: Param Cheema

Sample ID	Description	Sample Type (Refer)	TAT	Turnaround Time (Refer)	Notes
#21 512001-1 Tm01 out		ST	Std	75L	At noon
151 2001-1 Tm02					
151 2001-1 Tm03					
151 2001-1 Tm04					
151 2001-1 Tm05					
151 2001-1 Tm06					
151 2001-1 Tm07					7:1 2:00pm

Fungi - Spore Trap Analysis	Spore Trap Analysis - Other: particles	Direct Microscopic Exam (Qualitative)	Quantitative Spore Count Direct Exam	1-Media Surface Fungi (Genus ID + Asp. spp.)	2-Media Surface Fungi (Genus ID + Asp. spp.)	3-Media Surface Fungi (Genus ID + Asp. spp.)	Culturable Air Fungi (Genus ID + Asp. spp.)	Gram Stain & Counts (Culturable Air & Surface Bacteria)	Legionella culture	Total Coliform, E. coli (Presence/Absence)	Membrane Filtration (specify organism)	MPN Bacteria (specify organism)	Quant Tray - Storage Screen	Asbestos Analysis - PCM Airborne Fiber Count (NIOSH 7400)	Asbestos Analysis - PLM (EPA method 8900R-93-116)	PCR (specify test)	Specify Service
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SAMPLE TYPE CODES	ACQUIRED BY	DATE & TIME	RECEIVED BY	DATE & TIME	
BC - BioCassette™ A1S - Anderson SAS - Surface Air Sampler CP - Contact Plate	ST - Spore Trap: Zefon, Allergenco, Burkard ... P - Potable Water NP - Non-Potable Water	T - Tape D - Dust SW - Swab SO - Soil B - Bulk O - Other	<u>Param 12/02 @ 4:07</u>	<u>12/02 4:07</u>	<u>[Signature]</u>
				<u>12/2/15 @ 1:07</u>	

By submitting this Chain of Custody, you agree to be bound by the terms and conditions set forth at <http://www.emlab.com/services/terms.html>

Cherry Hill, NJ: 1935 Olney Avenue, Cherry Hill, NJ 08003 * (866) 871-1984
Phoenix, AZ: 1601 West Knudsen Drive, Phoenix, AZ 85027 * (800) 851-4802
San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 * (866) 888-6653

Weather	Fog	Rain	Snow	Wind	Clear
None	<input type="checkbox"/>				
Light	<input type="checkbox"/>				
Moderate	<input type="checkbox"/>				
Heavy	<input type="checkbox"/>				



REQUESTED SERVICE (Use checkboxes below)		Non-Culturable		Culturable		Other Requests	
Spore Trap	Tape Swab Bulk	BioCassette™, Andersen, SAS, Swab, Water, Bulk, Dcst, Soil, Contact Plates					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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