



HYGIENETECH

Hygiene Technologies International, Inc.

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January 12, 2014

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

Document No. 21312001.1

Attention: David Gau

Regarding: Limited Fungal Growth Exposure Assessment Surveys
December 2013 Random Sampling

Dear Mr. Gau:

On December 3, 6, 16, and 27, 2013, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted limited fungal growth exposure assessment surveys involving 22 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 21312001-1, the airborne spore count data recorded showed fungal spore types outdoors such as *Alternaria*, ascospores, basidiospores, *Botrytis*, *Cladosporium*, colorless spores typical of *Penicillium/Aspergillus* species, *Epicoccum*, other brown, other colorless, *Nigrospora*, rusts, 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, *Curvularia*, other brown, *Nigrospora*, rusts, and/or smuts. The distribution of fungal spore types detected in the surveyed areas was generally 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

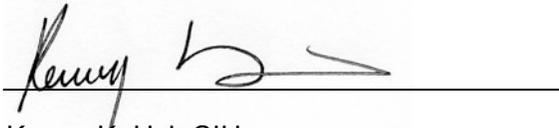


indicated. Note that fungal growth and exposure potentials may change due to changes in environmental conditions (such as those caused by water intrusion), use of mechanical systems, or other factors. Also be advised that additional fungal growth may exist at one or more locations in the structure that 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 K. Hsi", is written over 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 21312001-1
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
DECEMBER 3, 6, 16 AND 27, 2013**

Page 1

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

SAMPLE NUMBER	21312001-1 TM01OUT	21312001-1 TM02	21312001-1 TM03	21312001-1 TM04
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 20 feet south of building; approximately five feet above ground/Normal outdoor activities	2 nd Floor; Column N19 area; copy machine area; approximately five feet above floor/Normal office activities	6 th Floor; Column N22 area; Cubicle 118; about center; approximately five feet above floor/Normal office activities	7 th Floor; Column K20 area; adjacent to Cubicle 74; about center; approximately five feet above floor/Normal office activities
DATE	12/03/13	12/03/13	12/03/13	12/03/13
START/STOP	11:14:00/11:19:00	11:22:00/11:27:00	11:34:00/11:39:00	11:47:00/11:52:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	67	40		13
Ascospores	430			
Basidiospores	1,200			
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	13,000			53
Curvularia				
Epicoccum	13			
Fusarium				
Nigrospora	40			
Oidium				
Other brown	27			
Other colorless				
Penicillium/Aspergillus types	2,000			
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	110			13
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	110	<13	13	<13
Background debris*	3+	2+	1+	1+
TOTAL**	17,000	40	<13	80

*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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AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
DECEMBER 3, 6, 16 AND 27, 2013

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

SAMPLE NUMBER	21312001-1 TM05	21312001-1 TM06	21312001-1 TM07	21312001-2 TM08OUT
SAMPLING LOCATION/ACTIVITIES	9 th Floor; Column K18 area; about five feet north of Cubicle 9; approximately five feet above floor/Normal office activities	15 th Floor; Column N20 area; about 20 feet south of Column N20; approximately five feet above floor/Normal office activities	16 th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	Outdoors; about 20 feet south of building; approximately five feet above ground/Normal outdoor activities
DATE	12/03/13	12/03/13	12/03/13	12/06/13
START/STOP	11:58:00/12:03:00	12:09:00/12:14:00	12:18:00/12:23:00	08:54:00/08:59:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53	53	53	1,500
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				40
Stachybotrys				
Stemphylium				
Torula				
Trichocladium				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13	<13	13
Background debris*	2+	2+	2+	2+
TOTAL**	53	53	53	1,600

*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	21312001-2 TM09	21312001-2 TM10	21312001-2 TM11	21312001-2 TM12
SAMPLING LOCATION/ACTIVITIES	11 th Floor; Quiet Room 1102 entrance area; approximately five feet above floor/Normal office activities	17 th Floor; Room 1707; about 20 feet south of southern entrance; approximately five feet above floor/Normal office activities	20 th Floor; Room 2002; adjacent to Column N20; approximately five feet above floor/Normal office activities	22 nd Floor; Room 2232; adjacent to Column N18; approximately five feet above floor/Normal office activities
DATE	12/06/13	12/06/13	12/06/13	12/06/13
START/STOP	09:06:00/09:11:00	09:16:00/09:21:00	09:29:00/09:34:00	09:42:00/09:47:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores				320
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	370	110		53
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium			13	
Other brown		13	13	
Penicillium/Aspergillus types				
Pithomyces				
Rusts		13		
Smuts (Periconia, Myxomycetes)	40	13		
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	13	<13	<13	<13
Background debris*	1+	1+	1+	1+
TOTAL**	370	150	27	370

*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	21312001-2 TM13	21312001-1 TM14	21312001-1 TM15OUT	21312001-1 TM16
SAMPLING LOCATION/ACTIVITIES	23 rd Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	24 th Floor; adjacent to Room 2405; approximately five feet above floor/Normal office activities	Outdoors; about 15 feet east of building; approximately five feet above ground/Normal outdoor activities	4 th Floor; Break Room 415; about center; approximately five feet above floor/Normal office activities
DATE	12/06/13	12/06/13	12/16/13	12/16/13
START/STOP	09:58:00/10:03:00	10:08:00/10:13:00	14:19:00/14:24:00	14:29:00/14:34:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria			13	
Ascospores			160	
Basidiospores	53		2,200	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53	53	1,400	53
Curvularia				
Epicoccum			13	
Myrothecium				
Nigrospora				
Oidium				
Other colorless			13	
Penicillium/Aspergillus types	53			
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)			13	
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13	40	<13
Background debris*	2+	2+	2+	1+
TOTAL **	160	53	3,800	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	21312001-1 TM17	21312001-1 TM18	21312001-1 TM19	21312001-1 TM20
SAMPLING LOCATION/ACTIVITIES	8 th Floor; southeast stairwell area; about center; approximately five feet above floor/Normal office activities	14 th Floor; Men's Restroom; about center; approximately five feet above floor/Normal restroom activities	18 th Floor; Elevator Lobby; approximately five feet above floor/Normal office activities	21 st Floor; Mail Room 21B; about center; approximately five feet above floor/Normal office activities
DATE	12/16/13	12/16/13	12/16/13	12/16/13
START/STOP	14:38:00/14:43:00	14:46:00/14:51:00	14:56:00/15:01:00	15:04:00/15:09:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53	53		
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types		53		
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	13		13	
Spegazzinia				
Stachybotrys				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13	<13	<13
Background debris*	2+	2+	2+	1+
TOTAL**	67	110	13	<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	21312001-1 TM21OUT	21312001-1 TM22	21312001-1 TM23	21312001-1 TM24
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 20 feet west of building; approximately five feet above ground/Normal outdoor activities	1 st Floor; Cafeteria; Café area; about center; approximately five feet above floor/Normal office activities	3 rd Floor; western corridor; about center; approximately feet above floor/Normal office activities	5 th Floor; eastern corridor; approximately five feet above floor/Normal office activities
DATE	12/27/13	12/27/13	12/27/13	12/27/13
START/STOP	14:43:00/14:48:00	14:51:00/14:56:00	14:59:00/15:04:00	15:08:00/15:13:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores				
Basidiospores	690	53		
Bipolaris/Drechslera group				
Botrytis	13			
Chaetomium				
Cladosporium	11,000	53	110	
Curvularia			13	
Epicoccum	13			
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types	530			
Pithomyces				
Rusts	120			
Smuts (Periconia, Myxomycetes)	200	13	13	27
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	13	<13	<13	<13
Background debris*	2+	1+	2+	2+
TOTAL **	12,000	120	130	27

*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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SAMPLE NUMBER	21312001-1 TM25	21312001-1 TM26		
SAMPLING LOCATION/ACTIVITIES	10 th Floor; Column J18 area; about 15 feet northwest of Column J18; approximately five feet above floor/Normal office activities	19 th Floor; Column K20 area; about five feet east of Column K20; approximately five feet above floor/Normal office activities	This column intentionally left blank	This column intentionally left blank
DATE	12/27/13	12/27/13		
START/STOP	15:20:00/15:25:00	15:29:00/15:34:00		
SAMPLE TIME	5 minutes	5 minutes		
Alternaria				
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium				
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13		
Background debris*	1+	1+		
TOTAL**	<13	<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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Report for:

Mr. Kenny Hsi, Mr. Larry Sandhu
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21312001-1
EML ID: 1146058

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 12-04-2013

Service SOPs: Spore trap analysis (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.

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21312001-1

Date of Sampling: 12-03-2013
 Date of Receipt: 12-03-2013
 Date of Report: 12-04-2013

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21312001-1-TM01OUT		21312001-1-TM02		21312001-1-TM03		21312001-1-TM04	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	5178108-1		5178109-1		5178110-1		5178111-1	
Analysis Date:	12/04/2013		12/04/2013		12/04/2013		12/04/2013	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	5	67	3	40			1	13
Ascospores	8	430						
Basidiospores	22	1,200						
Chaetomium								
Cladosporium	239	13,000					1	53
Curvularia								
Epicoccum	1	13						
Fusarium								
Myrothecium								
Nigrospora	3	40						
Other brown	2	27						
Other colorless								
Penicillium/Aspergillus types†	37	2,000						
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes	8	110					1	13
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		2+		1+		1+	
Hyphal fragments/m3	110		< 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		17,000		40		< 13		80

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

† 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. Kenny Hsi, Mr. Larry Sandhu
 Re: 21312001-1

Date of Sampling: 12-03-2013
 Date of Receipt: 12-03-2013
 Date of Report: 12-04-2013

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21312001-1-TM05		21312001-1-TM06		21312001-1-TM07	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5178112-1		5178113-1		5178114-1	
Analysis Date:	12/04/2013		12/04/2013		12/04/2013	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores						
Chaetomium						
Cladosporium	1	53	1	53	1	53
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
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		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.

† 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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C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21312001-1

Date of Sampling: 12-03-2013
Date of Receipt: 12-03-2013
Date of Report: 12-04-2013

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21312001-1-TM01OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: December in California† (n‡=12832)						Typical Outdoor Data for: The entire year in California† (n‡=188141)					
		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	44	13	13	27	67	110	54
Bipolaris/Drechslera group	-	7	13	13	27	40	10	7	13	13	27	40	12
Chaetomium	-	8	13	13	27	40	13	8	13	13	27	47	19
Cladosporium	13,000	110	210	690	2,000	3,500	96	110	210	630	1,700	2,800	97
Curvularia	-	7	13	13	27	40	4	7	13	13	27	53	6
Epicoccum	13	11	13	13	40	53	16	8	13	13	33	53	19
Nigrospora	40	7	13	13	20	27	7	7	13	13	27	53	8
Other brown	27	13	13	13	40	53	31	13	13	13	40	53	34
Penicillium/Aspergillus types	2,000	53	110	270	690	1,200	86	53	100	210	590	1,000	85
Stachybotrys	-	8	13	13	33	80	3	7	13	13	33	67	4
Torula	-	8	13	13	40	53	5	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	430	27	53	160	640	1,300	69	25	53	110	360	690	71
Basidiospores	1,200	53	110	480	2,600	5,900	94	53	80	270	1,000	2,400	93
Rusts	-	11	13	13	40	53	18	13	13	13	53	80	27
Smuts, Periconia, Myxomycetes	110	13	13	33	80	160	61	13	13	40	110	200	68
§ TOTAL SPORES/m3	17,000												

†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.

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21312001-1

Date of Sampling: 12-03-2013
 Date of Receipt: 12-03-2013
 Date of Report: 12-04-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21312001-1-TM01OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				67	7 - 33 - 590	45
Ascospores				430	13 - 210 - 5,700	77
Basidiospores				1,200	14 - 460 - 24,000	92
Cladosporium				13,000	27 - 480 - 10,000	90
Epicoccum				13	7 - 20 - 330	25
Nigrospora				40	7 - 13 - 240	16
Other brown				27	7 - 13 - 130	24
Penicillium/Aspergillus types				2,000	13 - 170 - 2,700	68
Smuts, Periconia, Myxomycetes				110	7 - 53 - 930	64
Total				17,000		

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: 21312001-1-TM02

% 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: 3.6190 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.2750 Critical value: 0.5833 Outside Similar: No	Score: 116 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Alternaria				40
	Total				40

Location: 21312001-1-TM03

% 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: 3.6190 Critical value: 11.0705 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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21312001-1

Date of Sampling: 12-03-2013
 Date of Receipt: 12-03-2013
 Date of Report: 12-04-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21312001-1-TM04

% 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: 3.6190 Critical value: 11.0705 Inside Similar: Yes	Result: 0.5000	dF: 9 Result: 0.4500 Critical value: 0.5833 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Cladosporium					53
Smuts, Periconia, Myxomycetes					13
Total					80

Location: 21312001-1-TM05

% 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: 3.6190 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.6500 Critical value: 0.5833 Outside Similar: Yes	Score: 101 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Total					53

Location: 21312001-1-TM06

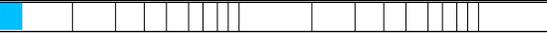
% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 5 Result: 3.6190 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.6500 Critical value: 0.5833 Outside Similar: Yes	Score: 101 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Total					53

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21312001-1

Date of Sampling: 12-03-2013
 Date of Receipt: 12-03-2013
 Date of Report: 12-04-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21312001-1-TM07

% 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: 3.6190 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.6500 Critical value: 0.5833 Outside Similar: Yes	Score: 101 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.

**** 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. Kenny Hsi, Mr. Larry Sandhu
 Re: 21312001-1

Date of Sampling: 12-03-2013
 Date of Receipt: 12-03-2013
 Date of Report: 12-04-2013

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21312001-1-TM01OUT

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					5	67
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					239	13,000
Curvularia					ND	< 13
Epicoccum					1	13
Nigrospora					3	40
Other brown					2	27
Penicillium/Aspergillus types†					37	2,000
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores					8	430
Basidiospores					22	1,200
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes					8	110
Total						16,573

Location: 21312001-1-TM02

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					3	40
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					ND	< 13
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						40

MoldSCORE‡			
100	200	300	Score
			116
			100
			100
			100
			100
			100
			100
			100
			100
			100
			100
			100
			100
Final MoldSCORE			116

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21312001-1

Date of Sampling: 12-03-2013
 Date of Receipt: 12-03-2013
 Date of Report: 12-04-2013

MoldSCORE™: Spore Trap Report

Location: 21312001-1-TM03

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†					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: 21312001-1-TM04

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	█				1	13				105
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium	█				1	53				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				102
Total						80				Final MoldSCORE 108

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21312001-1

Date of Sampling: 12-03-2013
 Date of Receipt: 12-03-2013
 Date of Report: 12-04-2013

MoldSCORE™: Spore Trap Report

Location: 21312001-1-TM05

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	█			101
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			101

Location: 21312001-1-TM06

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	█			101
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			101

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21312001-1

Date of Sampling: 12-03-2013
 Date of Receipt: 12-03-2013
 Date of Report: 12-04-2013

MoldSCORE™: Spore Trap Report

Location: 21312001-1-TM07

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	█		101
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		101

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

Regarding: Project: 21312001-1
EML ID: 1147557

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 12-09-2013

Service SOPs: Spore trap analysis (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.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Paramveer Cheema, Mr. Larry Sandhu
Re: 21312001-1

Date of Sampling: 12-06-2013
Date of Receipt: 12-06-2013
Date of Report: 12-09-2013

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21312001-1-TM08 Out		21312001-1-TM09		21312001-1-TM10		21312001-1-TM11	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	5185625-1		5185626-1		5185627-1		5185628-1	
Analysis Date:	12/09/2013		12/09/2013		12/09/2013		12/09/2013	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores								
Basidiospores								
Chaetomium								
Cladosporium	29	1,500	7	370	2	110		
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora							1	13
Other brown					1	13	1	13
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts					1	13		
Smuts, Periconia, Myxomycetes	3	40			1	13		
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		1+		1+		1+	
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		1,600		370		150		27

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

† 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, Mr. Larry Sandhu
Re: 21312001-1Date of Sampling: 12-06-2013
Date of Receipt: 12-06-2013
Date of Report: 12-09-2013**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21312001-1-TM12		21312001-1-TM13		21312001-1-TM14	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5185629-1		5185630-1		5185631-1	
Analysis Date:	12/09/2013		12/09/2013		12/09/2013	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores	6	320				
Basidiospores			1	53		
Botrytis						
Chaetomium						
Cladosporium	1	53	1	53	1	53
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other brown						
Other colorless						
Penicillium/Aspergillus types†			1	53		
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	1+		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		370		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.

† 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, Mr. Larry Sandhu
Re: 21312001-1

Date of Sampling: 12-06-2013
Date of Receipt: 12-06-2013
Date of Report: 12-09-2013

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21312001-1-TM08 Out

Fungi Identified	Outdoor data	Typical Outdoor Data for: December in California† (n‡=12832)						Typical Outdoor Data for: The entire year in California† (n‡=188141)					
		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	44	13	13	27	67	110	54
Bipolaris/Drechslera group	-	7	13	13	27	40	10	7	13	13	27	40	12
Chaetomium	-	8	13	13	27	40	13	8	13	13	27	47	19
Cladosporium	1,500	110	210	690	2,000	3,500	96	110	210	630	1,700	2,800	97
Curvularia	-	7	13	13	27	40	4	7	13	13	27	53	6
Nigrospora	-	7	13	13	20	27	7	7	13	13	27	53	8
Other brown	-	13	13	13	40	53	31	13	13	13	40	53	34
Penicillium/Aspergillus types	-	53	110	270	690	1,200	86	53	100	210	590	1,000	85
Stachybotrys	-	8	13	13	33	80	3	7	13	13	33	67	4
Torula	-	8	13	13	40	53	5	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	-	27	53	160	640	1,300	69	25	53	110	360	690	71
Basidiospores	-	53	110	480	2,600	5,900	94	53	80	270	1,000	2,400	93
Rusts	-	11	13	13	40	53	18	13	13	13	53	80	27
Smuts, Periconia, Myxomycetes	40	13	13	33	80	160	61	13	13	40	110	200	68
§ TOTAL SPORES/m3	1,600												

†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, Mr. Larry Sandhu
 Re: 21312001-1

Date of Sampling: 12-06-2013
 Date of Receipt: 12-06-2013
 Date of Report: 12-09-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21312001-1-TM08 Out:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores					13 - 210 - 5,700	77
Basidiospores					14 - 460 - 24,000	92
Cladosporium					27 - 480 - 10,000	90
Penicillium/Aspergillus types					13 - 170 - 2,700	68
Smuts, Periconia, Myxomycetes					7 - 53 - 930	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: 21312001-1-TM09

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 24%	dF: 5 Result: 2.4821 Critical value: 11.0705 Inside Similar: Yes	Result: 0.6667	dF: 2 Result: 1.0000 Critical value: N/A Outside Similar: N/A	Score: 106 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					370
Total					370

Location: 21312001-1-TM10

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 9%	dF: 5 Result: 2.4821 Critical value: 11.0705 Inside Similar: Yes	Result: 0.6667	dF: 4 Result: 0.8500 Critical value: N/A Outside Similar: N/A	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					110
Other brown					13
Rusts					13
Smuts, Periconia, Myxomycetes					13
Total					150

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Paramveer Cheema, Mr. Larry Sandhu
 Re: 21312001-1

Date of Sampling: 12-06-2013
 Date of Receipt: 12-06-2013
 Date of Report: 12-09-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21312001-1-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: 2.4821 Critical value: 11.0705 Inside Similar: Yes	Result: 0.0000	dF: 4 Result: -0.6500 Critical value: N/A Outside Similar: N/A	Score: 110 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Nigrospora					13
Other brown					13
Total					27

Location: 21312001-1-TM12

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 24%	dF: 5 Result: 2.4821 Critical value: 11.0705 Inside Similar: Yes	Result: 0.5000	dF: 3 Result: -0.5000 Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					320
Cladosporium					53
Total					370

Location: 21312001-1-TM13

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 10%	dF: 5 Result: 2.4821 Critical value: 11.0705 Inside Similar: Yes	Result: 0.4000	dF: 4 Result: 0.0500 Critical value: N/A Outside Similar: N/A	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					53
Penicillium/Aspergillus types					53
Total					160

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Paramveer Cheema, Mr. Larry Sandhu
 Re: 21312001-1

Date of Sampling: 12-06-2013
 Date of Receipt: 12-06-2013
 Date of Report: 12-09-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21312001-1-TM14

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 3%	dF: 5 Result: 2.4821 Critical value: 11.0705 Inside Similar: Yes	Result: 0.6667	dF: 2 Result: 1.0000 Critical value: N/A Outside Similar: N/A	Score: 101 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.

**** 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, Mr. Larry Sandhu
 Re: 21312001-1

Date of Sampling: 12-06-2013
 Date of Receipt: 12-06-2013
 Date of Report: 12-09-2013

MoldSCORE™: Spore Trap Report

Location: 21312001-1-TM10

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	█				2	110				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Other brown	█				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	█				1	13				105
Smuts, Periconia, Myxomycetes	█				1	13				102
Total						147				Final MoldSCORE 107

Location: 21312001-1-TM11

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	█				1	13				105
Other brown	█				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						27				Final MoldSCORE 110

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Paramveer Cheema, Mr. Larry Sandhu
 Re: 21312001-1

Date of Sampling: 12-06-2013
 Date of Receipt: 12-06-2013
 Date of Report: 12-09-2013

MoldSCORE™: Spore Trap Report

Location: 21312001-1-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					1	53			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					6	320			215
Basidiospores					ND	< 13			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
Total						373			Final MoldSCORE 100

Location: 21312001-1-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					1	53			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			106
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
Total						160			Final MoldSCORE 108



Report for:

Mr. Kenny Hsi, Mr. Larry Sandhu
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21312001-1
EML ID: 1150873

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 12-17-2013

Service SOPs: Spore trap analysis (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.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21312001-1Date of Sampling: 12-16-2013
Date of Receipt: 12-16-2013
Date of Report: 12-17-2013**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21312001-1TM15 Out		21312001-1TM16		21312001-1TM17	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5201800-1		5201801-1		5201802-1	
Analysis Date:	12/17/2013		12/17/2013		12/17/2013	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	1	13				
Ascospores	3	160				
Basidiospores	41	2,200				
Botrytis						
Chaetomium						
Cladosporium	27	1,400	1	53	1	53
Curvularia						
Epicoccum	1	13				
Fusarium						
Myrothecium						
Nigrospora						
Other colorless	1	13				
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes	1	13			1	13
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		1+		2+	
Hyphal fragments/m3	40		< 13		< 13	
Pollen/m3	13		< 13		< 13	
Skin cells (1-4+)	< 1+		< 1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		3,800		53		67

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

† 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. Kenny Hsi, Mr. Larry Sandhu
 Re: 21312001-1

Date of Sampling: 12-16-2013
 Date of Receipt: 12-16-2013
 Date of Report: 12-17-2013

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21312001-1TM18		21312001-1TM19		21312001-1TM20	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5201803-1		5201804-1		5201805-1	
Analysis Date:	12/17/2013		12/17/2013		12/17/2013	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores						
Botrytis						
Chaetomium						
Cladosporium	1	53				
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†	1	53				
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes			1	13		
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		1+	
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		< 13

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

† 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. Kenny Hsi, Mr. Larry Sandhu
Re: 21312001-1

Date of Sampling: 12-16-2013
Date of Receipt: 12-16-2013
Date of Report: 12-17-2013

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21312001-1TM15 Out

Fungi Identified	Outdoor data	Typical Outdoor Data for: December in California† (n‡=12832)						Typical Outdoor Data for: The entire year in California† (n‡=188141)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	13	13	13	27	53	80	44	13	13	27	67	110	54
Bipolaris/Drechslera group	-	7	13	13	27	40	10	7	13	13	27	40	12
Chaetomium	-	8	13	13	27	40	13	8	13	13	27	47	19
Cladosporium	1,400	110	210	690	2,000	3,500	96	110	210	630	1,700	2,800	97
Curvularia	-	7	13	13	27	40	4	7	13	13	27	53	6
Epicoccum	13	11	13	13	40	53	16	8	13	13	33	53	19
Nigrospora	-	7	13	13	20	27	7	7	13	13	27	53	8
Other colorless	13	10	13	13	40	53	4	10	13	13	27	53	5
Penicillium/Aspergillus types	-	53	110	270	690	1,200	86	53	100	210	590	1,000	85
Stachybotrys	-	8	13	13	33	80	3	7	13	13	33	67	4
Torula	-	8	13	13	40	53	5	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	160	27	53	160	640	1,300	69	25	53	110	360	690	71
Basidiospores	2,200	53	110	480	2,600	5,900	94	53	80	270	1,000	2,400	93
Rusts	-	11	13	13	40	53	18	13	13	13	53	80	27
Smuts, Periconia, Myxomycetes	13	13	13	33	80	160	61	13	13	40	110	200	68
§ TOTAL SPORES/m3	3,800												

†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. Kenny Hsi, Mr. Larry Sandhu
 Re: 21312001-1

Date of Sampling: 12-16-2013
 Date of Receipt: 12-16-2013
 Date of Report: 12-17-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21312001-1TM15 Out:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				13	7 - 33 - 590	45
Ascospores				160	13 - 210 - 5,700	77
Basidiospores				2,200	17 - 450 - 24,000	92
Cladosporium				1,400	27 - 480 - 10,000	90
Epicoccum				13	7 - 20 - 330	25
Other colorless				13	7 - 27 - 640	4
Penicillium/Aspergillus types				< 13	13 - 170 - 2,700	68
Smuts, Periconia, Myxomycetes				13	7 - 53 - 930	64
Total				3,800		

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: 21312001-1TM16

% 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: 2.3333 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.6518 Critical value: 0.6786 Outside Similar: No	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Cladosporium				53
	Total				53

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21312001-1

Date of Sampling: 12-16-2013
 Date of Receipt: 12-16-2013
 Date of Report: 12-17-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21312001-1TM17

% 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: 2.3333 Critical value: 9.4877 Inside Similar: Yes	Result: 0.4444	dF: 7 Result: 0.3929 Critical value: 0.6786 Outside Similar: No	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Smuts, Periconia, Myxomycetes					13
Total					67

Location: 21312001-1TM18

% 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: 4 Result: 2.3333 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.1786 Critical value: 0.6190 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Penicillium/Aspergillus types					53
Total					110

Location: 21312001-1TM19

% 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: 2.3333 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.2143 Critical value: 0.6786 Outside Similar: No	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Smuts, Periconia, Myxomycetes					13
Total					13

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21312001-1

Date of Sampling: 12-16-2013
 Date of Receipt: 12-16-2013
 Date of Report: 12-17-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21312001-1TM20

% 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: 2.3333 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

* 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.

**** 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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Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21312001-1

Date of Sampling: 12-16-2013
 Date of Receipt: 12-16-2013
 Date of Report: 12-17-2013

MoldSCORE™: Spore Trap Report

Location: 21312001-1TM17

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					1	13				103
Total						67				Final MoldSCORE 103

Location: 21312001-1TM18

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				101
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						107				Final MoldSCORE 108

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
 Re: 21312001-1

Date of Sampling: 12-16-2013
 Date of Receipt: 12-16-2013
 Date of Report: 12-17-2013

MoldSCORE™: Spore Trap Report

Location: 21312001-1TM19

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†					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				
							Final MoldSCORE			103

Location: 21312001-1TM20

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†					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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21312001-1

Date of Sampling: 12-16-2013
Date of Receipt: 12-16-2013
Date of Report: 12-17-2013

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. Larry Sandhu
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21312001-1
EML ID: 1154656

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 12-30-2013

Service SOPs: Spore trap analysis (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.

Client: Hygiene Technologies International, Inc.
C/O: Mr. Larry Sandhu
Re: 21312001-1Date of Sampling: 12-27-2013
Date of Receipt: 12-27-2013
Date of Report: 12-30-2013**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21312001-1 TM21 OUT		21312001-1 TM22		21312001-1 TM23	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5220190-1		5220191-1		5220192-1	
Analysis Date:	12/30/2013		12/30/2013		12/30/2013	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores						
Aureobasidium						
Basidiospores	13	690	1	53		
Bipolaris/Drechslera group						
Botrytis	1	13				
Chaetomium						
Cladosporium	204	11,000	1	53	2	110
Curvularia					1	13
Epicoccum	1	13				
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†	10	530				
Pithomyces						
Rusts	9	120				
Smuts, Periconia, Myxomycetes	15	200	1	13	1	13
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		1+		2+	
Hyphal fragments/m3	13		< 13		< 13	
Pollen/m3	27		< 13		< 13	
Skin cells (1-4+)	< 1+		< 1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		12,000		120		130

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

† 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 sample 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. Larry Sandhu
 Re: 21312001-1

Date of Sampling: 12-27-2013
 Date of Receipt: 12-27-2013
 Date of Report: 12-30-2013

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21312001-1 TM24		21312001-1 TM25		21312001-1 TM26	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5220193-1		5220194-1		5220195-1	
Analysis Date:	12/30/2013		12/30/2013		12/30/2013	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores						
Aureobasidium						
Basidiospores						
Bipolaris/Drechslera group						
Botrytis						
Chaetomium						
Cladosporium						
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes	2	27				
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		1+		1+	
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		27		< 13		< 13

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

† 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.

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Larry Sandhu
Re: 21312001-1

Date of Sampling: 12-27-2013
Date of Receipt: 12-27-2013
Date of Report: 12-30-2013

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21312001-1 TM21 OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for:						Typical Outdoor Data for:					
		December in California† (n‡=12832)						The entire year in California† (n‡=188141)					
	spores/m3	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	44	13	13	27	67	110	54
Bipolaris/Drechslera group	-	7	13	13	27	40	10	7	13	13	27	40	12
Chaetomium	-	8	13	13	27	40	13	8	13	13	27	47	19
Cladosporium	11,000	110	210	690	2,000	3,500	96	110	210	630	1,700	2,800	97
Curvularia	-	7	13	13	27	40	4	7	13	13	27	53	6
Epicoccum	13	11	13	13	40	53	16	8	13	13	33	53	19
Nigrospora	-	7	13	13	20	27	7	7	13	13	27	53	8
Penicillium/Aspergillus types	530	53	110	270	690	1,200	86	53	100	210	590	1,000	85
Stachybotrys	-	8	13	13	33	80	3	7	13	13	33	67	4
Torula	-	8	13	13	40	53	5	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	-	27	53	160	640	1,300	69	25	53	110	360	690	71
Basidiospores	690	53	110	480	2,600	5,900	94	53	80	270	1,000	2,400	93
Botrytis	13	13	13	20	53	82	17	13	13	20	53	80	18
Rusts	120	11	13	13	40	53	18	13	13	13	53	80	27
Smuts, Periconia, Myxomycetes	200	13	13	33	80	160	61	13	13	40	110	200	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.

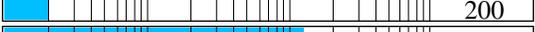
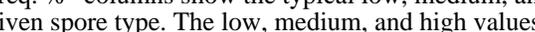
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Client: Hygiene Technologies International, Inc.
 C/O: Mr. Larry Sandhu
 Re: 21312001-1

Date of Sampling: 12-27-2013
 Date of Receipt: 12-27-2013
 Date of Report: 12-30-2013

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21312001-1 TM21 OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores					< 13	77
Basidiospores					690	92
Botrytis					13	6
Cladosporium					11,000	90
Epicoccum					13	25
Penicillium/Aspergillus types					530	68
Rusts					120	20
Smuts, Periconia, Myxomycetes					200	64
Total					12,000	

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: 21312001-1 TM22

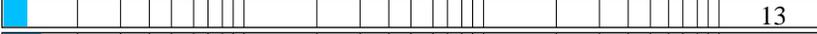
% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 4.9500 Critical value: 9.4877 Inside Similar: Yes	Result: 0.6000	dF: 7 Result: 0.8214 Critical value: 0.6786 Outside Similar: Yes	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Basidiospores				
	Cladosporium				
	Smuts, Periconia, Myxomycetes				
	Total				

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Location: 21312001-1 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: 4 Result: 4.9500 Critical value: 9.4877 Inside Similar: Yes	Result: 0.4000	dF: 8 Result: 0.2976 Critical value: 0.6190 Outside Similar: No	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					110
Curvularia					13
Smuts, Periconia, Myxomycetes					13
Total					130

Location: 21312001-1 TM24

% 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: 4.9500 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.3214 Critical value: 0.6786 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Smuts, Periconia, Myxomycetes					27
Total					27

Location: 21312001-1 TM25

% 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: 4.9500 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

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21312001-1 TM26

% 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: 4.9500 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

* 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.

**** 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.

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MoldSCORE™: Spore Trap Report

Location: 21312001-1 TM23

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	█				2	110	█			100
Curvularia	█				1	13	█			105
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	█			102
Total						133				Final MoldSCORE 107

Location: 21312001-1 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†					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	█				2	27	█			105
Total						27				Final MoldSCORE 105

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MoldSCORE™: Spore Trap Report

Location: 21312001-1 TM25

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†					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: 21312001-1 TM26

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†					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

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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.

