



HYGIENETECH

Hygiene Technologies International, Inc.

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July 30, 2015

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

Document No. 21506001.4

Attention: Vince Paul

Regarding: 2nd Floor – Western Electrical Closet

Dear Mr. Paul:

On June 12, 13 and 14, 2015, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) monitored various activities conducted by Department of General Services (DGS) involving the western electrical closet on 2nd Floor of the California State Board of Equalization (BOE) headquarters building.

On the evening of June 12, DGS personnel isolated all electrical components/fixtures and constructed plastic sheeting enclosures with negative air machine in the western electrical closet and adjacent area between Column M22 and L22. On June 13, DGS personnel removed a section of the eastern partition core wall of the electrical closet for inspection purpose and performed cleanup activities in the work area. During the building material removal activities, DGS personnel reportedly did not encounter any visual mold growth at the eastern partition wall work area of the western electrical closet. On the morning of June 14, the work area was inspected and air testing was performed by the DGS industrial hygiene consultant. Subsequently, satisfactory air testing results were reportedly received by the DGS industrial hygiene consultant and verbal notification was provided to the onsite HygieneTech representative the same day. At approximately noon that day, DGS personnel returned to the 2nd Floor and initiated reconstruction related activities.

Prior to and during the removal and reconstruction activities on June 13 and 14, HygieneTech monitored and documented general conditions and the activities/procedures around the work area. HygieneTech also collected air samples for exposure potential assessment outside of the work area on both days. HygieneTech also collected one air sample in an area adjacent to the western electrical closet around noon on June 12. Please note that during this process, HygieneTech did not observe any evidence of fungal growth on any of the accessible building materials due to limited access to the work area as instructed by DGS personnel.

On the survey dates, an air sample was also collected at an outdoor location for comparison purposes during each of the sampling events. 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.

As presented in Table 21506001-4, the airborne spore count data recorded on June 12, 13, and 14, 2015 showed mostly common fungal spore types outdoors, such as *Alternaria*, ascospores, basidiospores, *Bipolaris/Drechslera* group, *Chaetomium*, *Cladosporium*, *Epicoccum*, *Oidium*, colorless spore typical of *Penicillium* and *Aspergillus* species, rust, smuts, *Stachybotrys*, *Stemphylium*, and/or *Torula*. 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 *Alternaria*, *Cladosporium*, *Oidium*, rusts, and/or smuts. 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 with this correspondence only represent fungal growth exposure potentials that existed at the time of these air sampling events and at the precise locations only, the latter of which were selected based on the available background information provided, and 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. . 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 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 21506001-4
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
JUNE 12, 13, AND 14, 2015

Page 1

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

SAMPLE NUMBER	21506001-4 TM01OUT	21506001-4 TM02	21506001-4 TM03OUT	21506001-4 TM04
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 25 feet northeast of main entrance of building; approximately five feet above ground/Normal outdoor activities	2 nd Floor; Column L22 area; adjacent to western electrical closet; approximately five feet above floor/ Normal office activities	Outdoors; about 25 feet northeast of main entrance of building; approximately five feet above ground/Normal outdoor activities	2 nd Floor; Column L22 area; adjacent to western electrical closet work area enclosure; approximately five feet above floor/Investigation in progress
DATE	06/12/15	06/12/15	06/13/15	06/13/15
START/STOP	12:23:00/12:28:00	12:31:00/12:36:00	08:32:00/08:37:00	09:28:00/09:33:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	370	13	110	
Ascospores	270		590	
Basidiospores	160		430	
Bipolaris/Drechslera group			13	
Botrytis				
Chaetomium	13			
Cladosporium	6,600	53	14,000	
Curvularia				
Epicoccum	13			
Fusarium				
Nigrospora				
Oidium	40	13		
Other brown				
Other colorless				
Penicillium/Aspergillus types	430		270	
Pithomyces				
Rusts	40	40	67	
Smuts (Periconia, Myxomycetes)	210	160	310	
Stachybotrys	13			
Stemphylium	13		40	
Torula	13			
Ulocladium				
Hyphal fragments	27	<13	67	<13
Background debris*	2+	2+	2+	2+
TOTAL**	8,200	280	16,000	<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+.

**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.

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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450 N Street
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TABLE 21506001-4
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
JUNE 12, 13, AND 14, 2015

Page 2

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

SAMPLE NUMBER	21506001-4 TM05	21506001-5 TM01OUT	21506001-5 TM02	21506001-5 TM03OUT
SAMPLING LOCATION/ACTIVITIES	2 nd Floor; Column M22 area; adjacent to western electrical closet work area enclosure; approximately five feet above floor/Investigation in progress	Outdoors; about 25 feet northeast of main entrance of building; approximately five feet above ground/Normal outdoor activities	2 nd Floor; Column L22 area; adjacent to western electrical closet, approximately five feet above floor/Reconstruction activities in progress	Outdoors; about 15 feet south of the building; approximately five feet above ground/Normal outdoor activities
DATE	06/13/15	06/14/15	06/14/15	06/14/15
START/STOP	09:35:00/09:40:00	15:57:00/16:02:00	17:56:00/18:01:00	20:30:00/20:35:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria		170		150
Ascospores		320		53
Basidiospores		480		53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium		13		13
Cladosporium		5,300		7,900
Curvularia				
Epicoccum		13		13
Fusarium				
Nigrospora				
Oidium		40		
Other brown				
Penicillium/Aspergillus types		430		110
Pithomyces				
Rusts		80		93
Smuts (Periconia, Myxomycetes)		160		890
Stachybotrys				
Stemphylium				13
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	67	<13	240
Background debris*	1+	2+	4+	2+
TOTAL**	<13	7,000	<13	9,300

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

**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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APPENDIX A



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TABLE 21506001-4
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
JUNE 12, 13, AND 14, 2015

Page 3

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

SAMPLE NUMBER	21506001-5 TM04			
SAMPLING LOCATION/ACTIVITIES	2 nd Floor; Column L22 area; adjacent to western electrical closet, approximately five feet above floor/Post reconstruction; sampling activities only	This column intentionally left blank	This column intentionally left blank	This column intentionally left blank
DATE	06/14/15			
START/STOP	20:43:00/20:48:00			
SAMPLE TIME	5 minutes			
Alternaria				
Arthrinium				
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53			
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	27			
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13			
Background debris*	3+			
TOTAL**	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.



Report for:

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

Regarding: Project: 21506001-4
EML ID: 1378489

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 06-12-2015

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21506001-4

Date of Sampling: 06-12-2015
Date of Receipt: 06-12-2015
Date of Report: 06-12-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21506001-2 TM01OUT		21506001-2 TM02	
Comments (see below)	None		None	
Lab ID-Version‡:	6332125-1		6332126-1	
Analysis Date:	06/12/2015		06/12/2015	
	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	28	370	1	13
Ascospores	5	270		
Basidiospores	3	160		
Chaetomium	1	13		
Cladosporium	124	6,600	1	53
Curvularia				
Epicoccum	1	13		
Fusarium				
Myrothecium				
Nigrospora				
Oidium	3	40	1	13
Other colorless				
Penicillium/Aspergillus types†	8	430		
Pithomyces				
Rusts			3	40
Smuts, Periconia, Myxomycetes	16	210	12	160
Stachybotrys	1	13		
Stemphylium	1	13		
Torula	1	13		
Ulocladium				
Zygomycetes				
Background debris (1-4+)††	3+		2+	
Hyphal fragments/m3	120		< 13	
Pollen/m3	80		53	
Skin cells (1-4+)	< 1+		1+	
Sample volume (liters)	75		75	
§ TOTAL SPORES/m3		8,200		280

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. Lakhpreet Sandhu
Re: 21506001-4

Date of Sampling: 06-12-2015
Date of Receipt: 06-12-2015
Date of Report: 06-12-2015

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21506001-2 TM01OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: June in California† (n‡=17769)						Typical Outdoor Data for: The entire year in California† (n‡=214484)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	370	13	13	27	67	110	63	13	13	27	63	100	53
Bipolaris/Drechslera group	-	7	13	13	27	40	12	7	13	13	27	50	12
Chaetomium	13	7	13	13	27	40	24	8	13	13	27	50	19
Cladosporium	6,600	110	210	590	1,400	2,100	98	110	210	610	1,700	2,800	97
Curvularia	-	7	13	13	27	40	4	7	13	13	27	53	6
Epicoccum	13	10	13	13	40	53	26	8	13	13	38	53	19
Nigrospora	-	7	10	13	13	27	4	7	13	13	27	53	9
Penicillium/Aspergillus types	430	53	53	190	470	750	82	53	100	210	610	1,000	84
Stachybotrys	13	8	13	13	33	60	5	7	13	13	33	67	4
Stemphylium	13	7	13	13	27	40	12	7	13	13	27	40	9
Torula	13	10	13	13	40	67	18	8	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	270	13	40	93	240	430	70	25	53	110	370	700	71
Basidiospores	160	40	53	160	480	910	90	53	80	270	1,000	2,400	93
Oidium	40	13	13	20	50	80	28	13	13	13	47	75	19
Rusts	-	13	13	27	53	93	38	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	210	13	25	53	170	310	80	13	13	40	110	210	68
§ TOTAL SPORES/m3	8,200												

†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. Lakhpreet Sandhu
 Re: 21506001-4

Date of Sampling: 06-12-2015
 Date of Receipt: 06-12-2015
 Date of Report: 06-12-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21506001-2 TM01OUT:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				370	7 - 40 - 600	45
Ascospores				270	13 - 210 - 6,100	76
Basidiospores				160	13 - 430 - 24,000	92
Chaetomium				13	7 - 13 - 160	9
Cladosporium				6,600	27 - 480 - 10,000	90
Epicoccum				13	7 - 22 - 330	24
Oidium				40	7 - 13 - 210	11
Penicillium/Aspergillus types				430	13 - 170 - 2,700	68
Smuts, Periconia, Myxomycetes				210	7 - 53 - 910	64
Stachybotrys				13	7 - 13 - 510	3
Stemphylium				13	7 - 13 - 89	3
Torula				13	7 - 13 - 170	9
Total				8,200		

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

Indoor Samples

Location: 21506001-2 TM02

% 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: N/A Result: N/A Critical value: N/A Inside Similar: N/A	Result: 0.4706	dF: 13 Result: 0.3805 Critical value: 0.4780 Outside Similar: No	Score: 130 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Alternaria				13
	Cladosporium				53
	Oidium				13
	Rusts				40
	Smuts, Periconia, Myxomycetes				160
	Total				280

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
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Date of Report: 06-12-2015

MoldSTAT™: Supplementary Statistical Spore Trap Report

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

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

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

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

Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21506001-4

Date of Sampling: 06-12-2015
 Date of Receipt: 06-12-2015
 Date of Report: 06-12-2015

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21506001-2 TM01OUT

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					28	370
Bipolaris/Drechslera group					ND	< 13
Chaetomium					1	13
Cladosporium					124	6,600
Curvularia					ND	< 13
Epicoccum					1	13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					8	430
Stachybotrys					1	13
Stemphylium					1	13
Torula					1	13
Seldom found growing indoors**						
Ascospores					5	270
Basidiospores					3	160
Oidium					3	40
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes					16	210
Total						8,160

Location: 21506001-2 TM02

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					1	13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					1	53
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
Oidium					1	13
Rusts					3	40
Smuts, Periconia, Myxomycetes					12	160
Total						280

MoldSCORE‡			
100	200	300	Score
			100
			100
			100
			100
			100
			100
			100
			100
			100
			100
			100
			105
			116
			130
Final MoldSCORE			130

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21506001-4

Date of Sampling: 06-12-2015
Date of Receipt: 06-12-2015
Date of Report: 06-12-2015

MoldSCORE™: Spore Trap Report

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

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

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

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



Report for:

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

Regarding: Project: 21506001-4
EML ID: 1378702

Approved by:

Technical Manager
Melissa Tracey

REVISED REPORT

Dates of Analysis:
Spore trap analysis: 06-15-2015

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

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

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

Client: Hygiene Technologies International, Inc.
C/O: Mr. Lakhpreet Sandhu
Re: 21506001-4

Date of Sampling: 06-13-2015
Date of Receipt: 06-13-2015
Date of Report: 06-13-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21506001-4 TM03OUT		21506001-4 TM04		21506001-4 TM05	
Comments (see below)	None		None		None	
Lab ID-Version‡:	6333465-2		6333466-2		6333467-2	
Analysis Date:	06/15/2015		06/15/2015		06/15/2015	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	8	110				
Ascospores	11	590				
Basidiospores	8	430				
Bipolaris/Drechslera group	1	13				
Chaetomium						
Cladosporium	271	14,000				
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†	5	270				
Pithomyces						
Rusts	5	67				
Smuts, Periconia, Myxomycetes	23	310				
Stachybotrys						
Stemphylium	3	40				
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		1+	
Hyphal fragments/m3	67		< 13		< 13	
Pollen/m3	67		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		< 1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		16,000		< 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.



Report for:

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

Regarding: Project: 21506001-5
EML ID: 1378720

Approved by:

Technical Manager
Melissa Tracey

REVISED REPORT

Dates of Analysis:
Spore trap analysis: 06-15-2015

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

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Client: Hygiene Technologies International, Inc.
 C/O: Mr. Lakhpreet Sandhu
 Re: 21506001-5

Date of Sampling: 06-14-2015
 Date of Receipt: 06-14-2015
 Date of Report: 06-14-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21506001-5 TM01OUT		21506001-5 TM02	
Comments (see below)	None		None	
Lab ID-Version‡:	6333522-2		6333523-2	
Analysis Date:	06/15/2015		06/15/2015	
	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	13	170		
Ascospores	6	320		
Basidiospores	9	480		
Chaetomium	1	13		
Cladosporium	100	5,300		
Curvularia				
Epicoccum	1	13		
Fusarium				
Myrothecium				
Nigrospora				
Oidium	3	40		
Other colorless				
Penicillium/Aspergillus types†	8	430		
Pithomyces				
Rusts	6	80		
Smuts, Periconia, Myxomycetes	12	160		
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Background debris (1-4+)††	2+		4+	
Hyphal fragments/m3	67		< 13	
Pollen/m3	110		< 13	
Skin cells (1-4+)	< 1+		< 1+	
Sample volume (liters)	75		75	
§ TOTAL SPORES/m3		7,000		< 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.

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

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

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

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



Report for:

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

Regarding: Project: 21506001-5
EML ID: 1378722

Approved by:

Technical Manager
Melissa Tracey

REVISED REPORT

Dates of Analysis:
Spore trap analysis: 06-15-2015

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

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Client: Hygiene Technologies International, Inc.
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
 Re: 21506001-5

Date of Sampling: 06-14-2015
 Date of Receipt: 06-14-2015
 Date of Report: 06-14-2015

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21506001-5 TM03OUT		21506001-5 TM04	
Comments (see below)	None		None	
Lab ID-Version‡:	6333525-2		6333526-2	
Analysis Date:	06/15/2015		06/15/2015	
	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	11	150		
Ascospores	1	53		
Basidiospores	1	53		
Botrytis				
Chaetomium	1	13		
Cladosporium	149	7,900	1	53
Curvularia				
Epicoccum	1	13		
Fusarium				
Myrothecium				
Nigrospora				
Other colorless				
Penicillium/Aspergillus types†	2	110		
Pithomyces				
Rusts	7	93		
Smuts, Periconia, Myxomycetes	67	890	2	27
Stachybotrys				
Stemphylium	1	13		
Torula				
Ulocladium				
Zygomycetes				
Background debris (1-4+)††	2+		3+	
Hyphal fragments/m3	240		< 13	
Pollen/m3	27		< 13	
Skin cells (1-4+)	< 1+		1+	
Sample volume (liters)	75		75	
§ TOTAL SPORES/m3		9,300		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.

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

