



# HYGIENETECH

Hygiene Technologies International, Inc.

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Torrance, California 90503-1643  
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www.hygienetech.com

May 31, 2016

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

Document No. 21603001.1

Attention: Edna B. Murphy  
Deputy Director Administration Department

Regarding: Limited Fungal Growth Exposure Assessment Surveys  
March 2016 Random Sampling

Dear Ms. Murphy:

On March 11, 14, 24 and 30, 2016, 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 21603001-1, the airborne spore count data recorded showed fungal spore types outdoors such as *Alternaria*, ascospores, basidiospores, *Bipolaris/Drechslera* group, *Cladosporium*, colorless spores typical of *Penicillium/Aspergillus* species, *Oidium*, rusts, smuts, 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 ascospores, basidiospores, *Bipolaris/Drechslera* group, *Cladosporium*, colorless spores typical of *Penicillium/Aspergillus* species, *Oidium*, other brown, *Nigrospora*, rusts, and/or smuts. The distribution of fungal spore types detected in the surveyed areas was consistent with those found outdoors, and the overall data within the tested areas were well below the overall outdoor data recorded. These data are considered unremarkable and are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.



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

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

Sincerely,

**HYGIENE TECHNOLOGIES INTERNATIONAL, INC.**

A handwritten signature in black ink, appearing to read "Kenny", followed by a stylized flourish that extends to the right. The signature is positioned above 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 21603001-1  
AIRBORNE TOTAL FUNGI RESULTS  
450 N STREET  
SACRAMENTO, CALIFORNIA  
MARCH 11, 14, 24 AND 30, 2016

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## Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)

SAMPLE NUMBER	21603001-1 TM01OUT	21603001-1 TM02	21603001-1 TM03	21603001-1 TM04
<b>SAMPLING LOCATION/ACTIVITIES</b>	Outdoors; about 25 feet northeast of main entrance; approximately five feet above ground/Normal outdoor activities	18 <sup>th</sup> Floor; Column J18 area; about five feet northwest of Column J18; approximately five feet above floor/ Normal office activities	19 <sup>th</sup> Floor; Column L18 area; Cubicle 54 entry area; approximately five feet above floor/Normal office activities	20 <sup>th</sup> Floor; southeast stairwell area; about center; approximately five feet above floor/Normal office activities
<b>DATE</b>	03/11/16	03/11/16	03/11/16	03/11/16
<b>START/STOP</b>	15:40:00/15:45:00	15:48:00/15:53:00	15:56:00/16:01:00	16:03:00/16:08:00
<b>SAMPLE TIME</b>	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	40			
Ascospores	1,900		53	160
Basidiospores	1,900			270
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	750			53
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium				
Other brown				
Other colorless				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	13			13
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	40	<13	<13	13
Background debris*	2+	3+	3+	3+
<b>TOTAL **</b>	4,500	<13	53	490

\*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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Sacramento, California 94279

TABLE 21603001-1  
AIRBORNE TOTAL FUNGI RESULTS  
450 N STREET  
SACRAMENTO, CALIFORNIA  
MARCH 11, 14, 24 AND 30, 2016

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## Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)

SAMPLE NUMBER	21603001-1 TM05	21603001-1 TM06	21603001-1 TM07OUT	21603001-1 TM08
<b>SAMPLING LOCATION/ACTIVITIES</b>	21 <sup>st</sup> Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	22 <sup>nd</sup> Floor; southern quadrant area between Room 2206 and Cubicle 83; approximately five feet above floor/Normal office activities	Outdoors; about 15 feet east of building; approximately five feet above ground/Normal outdoor activities	10 <sup>th</sup> Floor; Column J18 area; about one foot northwest of Column J18; approximately five feet above floor/Normal office activities
<b>DATE</b>	03/11/16	03/11/16	03/14/16	03/14/16
<b>START/STOP</b>	16:12:00/16:17:00	16:19:00/16:24:00	08:58:00/09:03:00	09:08:00/09:13:00
<b>SAMPLE TIME</b>	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores			6,500	
Basidiospores	53		13,000	53
Bipolaris/Drechslera group				13
Botrytis				
Cercospora				
Chaetomium				
Cladosporium			53	
Epicoccum				
Fusarium				
Nigrospora				13
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts		13		
Smuts (Periconia, Myxomycetes)	13	27		13
Stachybotrys				
Stemphylium				
Torula				
Trichocladium				
Ulocladium				
Zygomycetes				
Hyphal fragments	27	<13	<13	<13
Background debris*	4+	3+	3+	4+
<b>TOTAL**</b>	67	40	20,000	93

\*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  
MARCH 11, 14, 24 AND 30, 2016

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Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)

SAMPLE NUMBER	21603001-1 TM09	21603001-1 TM10	21603001-1 TM11	21603001-1 TM12
SAMPLING LOCATION/ACTIVITIES	11 <sup>th</sup> Floor; Quiet Room 1102; about center; approximately five feet above floor/Normal office activities	14 <sup>th</sup> Floor; western corridor at southern end; approximately five feet above floor/Normal office activities	15 <sup>th</sup> Floor; Column K19 area; Cubicle 101 entry area; approximately five feet above floor/Normal office activities	16 <sup>th</sup> Floor; southeast stairwell area; approximately five feet above floor/Normal office activities
DATE	03/14/16	03/14/16	03/14/16	03/14/16
START/STOP	09:17:00/09:22:00	09:26:00/09:31:00	09:35:00/09:40:00	09:42:00/09:47:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores	110		53	160
Basidiospores	160	53	110	590
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium				110
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				13
Oidium				
Other brown		13	13	
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	<13
Background debris*	3+	3+	3+	3+
<b>TOTAL **</b>	270	67	160	870

\*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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## Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)

SAMPLE NUMBER	21603001-1 TM13OUT	21603001-1 TM14	21603001-1 TM15	21603001-1 TM16
<b>SAMPLING LOCATION/ACTIVITIES</b>	Outdoors; about 15 feet west of the building; approximately five feet above ground/Normal outdoor activities	4 <sup>th</sup> Floor; Quiet Room 416; about seven feet north of entry door; approximately five feet above floor/Normal office activities	5 <sup>th</sup> Floor; southern corridor; about three feet south of Freight Elevator; approximately five feet above floor/Normal office activities	6 <sup>th</sup> Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities
<b>DATE</b>	03/24/16	03/24/16	03/24/16	03/24/16
<b>START/STOP</b>	09:25:00/09:30:00	09:35:00/09:40:00	09:43:00/09:48:00	09:52:00/09:57:00
<b>SAMPLE TIME</b>	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	13			
Ascospores	1,200		53	
Basidiospores	8.200	53	53	53
Bipolaris/Drechslera group	13			
Botrytis				
Chaetomium				
Cladosporium	710		53	
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types	370			
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	53			13
Stachybotrys				
Stemphylium				
Torula				
Trichocladium				
Ulocladium				
Zygomycetes				
Hyphal fragments	13	<13	<13	<13
Background debris*	3+	2+	2+	3+
<b>TOTAL **</b>	11,000	53	160	67

\*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/M<sup>3</sup>)

SAMPLE NUMBER	21603001-1 TM17	21603001-1 TM18	21603001-1 TM19	21603001-1 TM20OUT
<b>SAMPLING LOCATION/ACTIVITIES</b>	7 <sup>th</sup> Floor; northern corridor adjacent to northwestern drinking fountain; approximately five feet above floor/Normal office activities	8 <sup>th</sup> Floor; Column N21 area; Cubicle 169 entry area; approximately five feet above floor/Normal office activities	9 <sup>th</sup> Floor; Column N22 area; about 20 feet southeast of Column N22; approximately five feet above floor/Normal office activities	Outdoors; about 15 feet south of the building; approximately five feet above ground/Normal outdoor activities
<b>DATE</b>	03/24/16	03/24/16	03/24/16	03/30/16
<b>START/STOP</b>	09:59:00/10:04:00	10:09:00/10:14:00	10:16:00/10:21:00	10:23:00/10:28:00
<b>SAMPLE TIME</b>	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				27
Ascospores				430
Basidiospores		53	110	2,300
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		53		270
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				53
Other brown			27	
Penicillium/Aspergillus types	53			320
Pithomyces				
Rusts	13			27
Smuts (Periconia, Myxomycetes)				67
Stachybotrys				
Stemphylium				
Torula				13
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13	13	<13
Background debris*	2+	2+	2+	3+
<b>TOTAL **</b>	67	110	130	3,500

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Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)

SAMPLE NUMBER	21603001-1 TM21	21603001-1 TM22	21603001-1 TM23	21603001-1 TM24
SAMPLING LOCATION/ACTIVITIES	1 <sup>st</sup> Floor; Bulk Mailing Room 140; about center; approximately five feet above floor/Normal office activities	2 <sup>nd</sup> Floor; Elevator Lobby; about center; approximately feet above floor/Normal office activities	3 <sup>rd</sup> Floor; Room 310; southeastern corner; approximately five feet above floor/Normal office activities	17 <sup>th</sup> Floor; Break Room 1710; about center; approximately five feet above floor/Normal office activities
DATE	03/30/16	03/30/16	03/30/16	03/30/16
START/STOP	10:33:00/10:38:00	10:43:00/10:48:00	10:51:00/10:56:00	11:01:00/11:06:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores				
Basidiospores	53			
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		53		110
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium			13	
Other brown				
Penicillium/Aspergillus types		53		
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)		13		
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	13	<13	<13	<13
Background debris*	2+	2+	2+	2+
<b>TOTAL**</b>	<b>53</b>	<b>120</b>	<b>13</b>	<b>110</b>

\*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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MARCH 11, 14, 24 AND 30, 2016

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## Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)

SAMPLE NUMBER	21603001-1 TM25	21603001-1 TM26		
SAMPLING LOCATION/ACTIVITIES	23 <sup>rd</sup> Floor; Room 2334; Reception area; about center; approximately five feet above floor/ Normal office activities	24 <sup>th</sup> Floor; southern corridor adjacent to Room 2416 entry door; approximately five feet above floor/Normal office activities	This column intentionally left blank	This column intentionally left blank
DATE	03/30/16	03/30/16		
START/STOP	11:11:00/11:16:00	11:18:00/11:23:00		
SAMPLE TIME	5 minutes	5 minutes		
Alternaria				
Ascospores				
Basidiospores	53	160		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		53		
Curvularia				
Epicoccum				
Helicoma				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types		370		
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13		
Background debris*	2+	2+		
<b>TOTAL**</b>	<b>53</b>	<b>590</b>		

\*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

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Regarding: Project: 21603001-1  
EML ID: 1508606

Approved by:

Dates of Analysis:  
Spore trap analysis: 03-15-2016

Technical Manager  
Louise White

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

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

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

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

Client: Hygiene Technologies International, Inc.  
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
Re: 21603001-1

Date of Sampling: 03-11-2016  
Date of Receipt: 03-14-2016  
Date of Report: 03-15-2016

**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21603001-1TM01OUT		21603001-1TM02		21603001-1TM03		21603001-1TM04	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	6978080-1		6978081-1		6978082-1		6978083-1	
Analysis Date:	03/15/2016		03/15/2016		03/15/2016		03/15/2016	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	3	40						
Ascospores	35	1,900			1	53	3	160
Basidiospores	35	1,900					5	270
Bipolaris/Drechslera group								
Chaetomium								
Cladosporium	14	750					1	53
Fusarium								
Myrothecium								
Nigrospora								
Other brown								
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes	1	13					1	13
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		3+		3+		3+	
Hyphal fragments/m3	40		< 13		< 13		13	
Pollen/m3	1,800		13		< 13		< 13	
Skin cells (1-4+)	< 1+		2+		2+		1+	
Sample volume (liters)	75		75		75		75	
<b>§ TOTAL SPORES/m3</b>		<b>4,500</b>		<b>&lt; 13</b>		<b>53</b>		<b>490</b>

**Comments:**

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

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

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

The analytical sensitivity is the spores/m<sup>3</sup> divided by the raw count, expressed in spores/m<sup>3</sup>. The limit of detection is the analytical sensitivity (in spores/m<sup>3</sup>) multiplied by the sample volume (in liters) divided by 1000 liters.

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/m<sup>3</sup> 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: 21603001-1

Date of Sampling: 03-11-2016  
Date of Receipt: 03-14-2016  
Date of Report: 03-15-2016

**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21603001-1TM05		21603001-1TM06		21603001-1TM07OUT		21603001-1TM08	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	6978084-1		6978085-1		6978086-1		6978087-1	
Analysis Date:	03/15/2016		03/15/2016		03/15/2016		03/15/2016	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Ascospores					55	6,500		
Basidiospores	1	53			112	13,000	1	53
Bipolaris/Drechslera group							1	13
Chaetomium								
Cladosporium					1	53		
Fusarium								
Myrothecium								
Nigrospora							1	13
Other brown								
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts			1	13				
Smuts, Periconia, Myxomycetes	1	13	2	27			1	13
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	4+		3+		3+		4+	
Hyphal fragments/m3	27		< 13		< 13		< 13	
Pollen/m3	< 13		< 13		160		13	
Skin cells (1-4+)	2+		1+		< 1+		2+	
Sample volume (liters)	75		75		75		75	
<b>§ TOTAL SPORES/m3</b>		<b>67</b>		<b>40</b>		<b>20,000</b>		<b>93</b>

**Comments:**

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

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

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

The analytical sensitivity is the spores/m<sup>3</sup> divided by the raw count, expressed in spores/m<sup>3</sup>. The limit of detection is the analytical sensitivity (in spores/m<sup>3</sup>) multiplied by the sample volume (in liters) divided by 1000 liters.

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/m<sup>3</sup> 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: 21603001-1

Date of Sampling: 03-11-2016  
Date of Receipt: 03-14-2016  
Date of Report: 03-15-2016

**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21603001-1TM09		21603001-1TM10		21603001-1TM11		21603001-1TM12	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	6978088-1		6978089-1		6978090-1		6978091-1	
Analysis Date:	03/15/2016		03/15/2016		03/15/2016		03/15/2016	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Ascospores	2	110			1	53	3	160
Basidiospores	3	160	1	53	2	110	11	590
Bipolaris/Drechslera group								
Chaetomium								
Cladosporium							2	110
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora							1	13
Other brown			1	13				
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		3+		3+		3+	
Hyphal fragments/m3	< 13		< 13		< 13		< 13	
Pollen/m3	13		< 13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+		2+	
Sample volume (liters)	75		75		75		75	
<b>§ TOTAL SPORES/m3</b>		<b>270</b>		<b>67</b>		<b>160</b>		<b>870</b>

**Comments:**

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

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

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

The analytical sensitivity is the spores/m<sup>3</sup> divided by the raw count, expressed in spores/m<sup>3</sup>. The limit of detection is the analytical sensitivity (in spores/m<sup>3</sup>) multiplied by the sample volume (in liters) divided by 1000 liters.

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/m<sup>3</sup> 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: 21603001-1

Date of Sampling: 03-11-2016  
Date of Receipt: 03-14-2016  
Date of Report: 03-15-2016

**MoldRANGE™: Extended Outdoor Comparison**

**Outdoor Location: 21603001-1TM01OUT**

Fungi Identified	Outdoor data	Typical Outdoor Data for: March in California† (n‡=22640)						Typical Outdoor Data for: The entire year in California† (n‡=230445)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
<b>Generally able to grow indoors*</b>													
Alternaria	40	13	13	27	53	80	45	13	13	27	65	110	53
Bipolaris/Drechslera group	-	7	13	13	27	40	8	7	13	13	27	53	12
Chaetomium	-	7	13	13	27	40	12	8	13	13	27	48	19
Cladosporium	750	100	160	430	1,100	1,900	95	110	210	610	1,700	2,800	97
Curvularia	-	7	12	13	27	40	2	7	13	13	27	53	6
Nigrospora	-	7	10	13	13	27	4	7	13	13	27	53	9
Other brown	-	13	13	13	33	53	30	13	13	13	40	53	34
Penicillium/Aspergillus types	-	53	53	180	480	750	80	53	100	210	610	1,000	84
Stachybotrys	-	7	13	13	27	56	3	7	13	13	33	67	4
Torula	-	8	13	13	40	67	8	8	13	13	40	67	11
<b>Seldom found growing indoors**</b>													
Ascospores	1,900	27	53	160	480	860	78	27	53	110	370	750	71
Basidiospores	1,900	67	120	430	1,400	2,800	96	53	80	260	1,000	2,400	93
Rusts	-	13	13	13	53	80	23	13	13	13	53	87	26
Smuts, Periconia, Myxomycetes	13	13	13	27	67	110	55	13	13	40	110	200	68
<b>§ TOTAL SPORES/m3</b>	<b>4,500</b>												

†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.

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Re: 21603001-1

Date of Sampling: 03-11-2016  
Date of Receipt: 03-14-2016  
Date of Report: 03-15-2016

**MoldRANGE™: Extended Outdoor Comparison**

**Outdoor Location: 21603001-1TM07OUT**

Fungi Identified	Outdoor data	Typical Outdoor Data for: March in California† (n‡=22640)						Typical Outdoor Data for: The entire year in California† (n‡=230445)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
<b>Generally able to grow indoors*</b>													
Alternaria	-	13	13	27	53	80	45	13	13	27	65	110	53
Bipolaris/Drechslera group	-	7	13	13	27	40	8	7	13	13	27	53	12
Chaetomium	-	7	13	13	27	40	12	8	13	13	27	48	19
Cladosporium	53	100	160	430	1,100	1,900	95	110	210	610	1,700	2,800	97
Curvularia	-	7	12	13	27	40	2	7	13	13	27	53	6
Nigrospora	-	7	10	13	13	27	4	7	13	13	27	53	9
Other brown	-	13	13	13	33	53	30	13	13	13	40	53	34
Penicillium/Aspergillus types	-	53	53	180	480	750	80	53	100	210	610	1,000	84
Stachybotrys	-	7	13	13	27	56	3	7	13	13	33	67	4
Torula	-	8	13	13	40	67	8	8	13	13	40	67	11
<b>Seldom found growing indoors**</b>													
Ascospores	6,500	27	53	160	480	860	78	27	53	110	370	750	71
Basidiospores	13,000	67	120	430	1,400	2,800	96	53	80	260	1,000	2,400	93
Rusts	-	13	13	13	53	80	23	13	13	13	53	87	26
Smuts, Periconia, Myxomycetes	-	13	13	27	67	110	55	13	13	40	110	200	68
<b>§ TOTAL SPORES/m3</b>	20,000												

†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. Kenny Hsi, Mr. Lakhpreet Sandhu  
 Re: 21603001-1

Date of Sampling: 03-11-2016  
 Date of Receipt: 03-14-2016  
 Date of Report: 03-15-2016

**MoldSTAT™: Supplementary Statistical Spore Trap Report**

**Outdoor Summary: 21603001-1TM01OUT:**

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria					7 - 40 - 590	45
Ascospores					13 - 210 - 6,100	76
Basidiospores					13 - 430 - 23,000	92
Cladosporium					27 - 480 - 9,900	90
Penicillium/Aspergillus types					13 - 170 - 2,600	67
Smuts, Periconia, Myxomycetes					7 - 53 - 930	64
<b>Total</b>						

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: 21603001-1TM02**

% 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: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
<b>Species Detected</b>		<b>Spores/m3</b>		
None Detected		<100	1K	10K
				>100K
				< 13

**Location: 21603001-1TM03**

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.6500 Critical value: 0.8000 Outside Similar: No	Score: 100 Result: Low
<b>Species Detected</b>		<b>Spores/m3</b>		
Ascospores		<100	1K	10K
Total				>100K
				53
				53

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
 Re: 21603001-1

Date of Sampling: 03-11-2016  
 Date of Receipt: 03-14-2016  
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**MoldSTAT™: Supplementary Statistical Spore Trap Report**

**Location: 21603001-1TM04**

% 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: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.8889	dF: 5 Result: 0.8750 Critical value: 0.8000 Outside Similar: Yes	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					160
Basidiospores					270
Cladosporium					53
Smuts, Periconia, Myxomycetes					13
<b>Total</b>					490

**Location: 21603001-1TM05**

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.1750 Critical value: 0.8000 Outside Similar: No	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Smuts, Periconia, Myxomycetes					13
<b>Total</b>					67

**Location: 21603001-1TM06**

% 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: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: -0.5000 Critical value: 0.7714 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Rusts					13
Smuts, Periconia, Myxomycetes					27
<b>Total</b>					40

Client: Hygiene Technologies International, Inc.  
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 Re: 21603001-1

Date of Sampling: 03-11-2016  
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 Date of Report: 03-15-2016

**MoldSTAT™: Supplementary Statistical Spore Trap Report**

**Location: 21603001-1TM08**

% 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: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.4444	dF: 7 Result: -0.1071 Critical value: 0.6786 Outside Similar: No	Score: 113 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Bipolaris/Drechslera group					13
Nigrospora					13
Smuts, Periconia, Myxomycetes					13
<b>Total</b>					93

**Location: 21603001-1TM09**

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 5%	dF: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.8750 Critical value: 0.8000 Outside Similar: Yes	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					110
Basidiospores					160
<b>Total</b>					270

**Location: 21603001-1TM10**

% 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: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.2000 Critical value: 0.7714 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Other brown					13
<b>Total</b>					67

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
 Re: 21603001-1

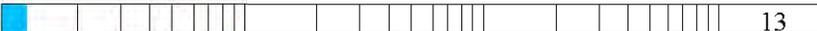
Date of Sampling: 03-11-2016  
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**MoldSTAT™: Supplementary Statistical Spore Trap Report**

**Location: 21603001-1TM11**

% 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: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.8750 Critical value: 0.8000 Outside Similar: Yes	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					53
Basidiospores					110
<b>Total</b>					160

**Location: 21603001-1TM12**

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 18%	dF: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.6667	dF: 6 Result: 0.8000 Critical value: 0.7714 Outside Similar: Yes	Score: 124 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					160
Basidiospores					590
Cladosporium					110
Nigrospora					13
<b>Total</b>					870

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

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

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

Client: Hygiene Technologies International, Inc.  
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
Re: 21603001-1

Date of Sampling: 03-11-2016  
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**MoldSTAT™: Supplementary Statistical Spore Trap Report**

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

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Date of Sampling: 03-11-2016  
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**MoldSTAT™: Supplementary Statistical Spore Trap Report**

**Outdoor Summary: 21603001-1TM07OUT:**

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores					13 - 210 - 6,100	76
Basidiospores					13 - 430 - 23,000	92
Cladosporium					27 - 480 - 9,900	90
Penicillium/Aspergillus types					13 - 170 - 2,600	67
Smuts, Periconia, Myxomycetes					7 - 53 - 930	64
<b>Total</b>						

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: 21603001-1TM02**

% 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: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
None Detected		<100	1K	10K >100K < 13

**Location: 21603001-1TM03**

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.5000	dF: 3 Result: 0.1250 Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
Ascospores		<100	1K	10K >100K 53
<b>Total</b>				53

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
 Re: 21603001-1

Date of Sampling: 03-11-2016  
 Date of Receipt: 03-14-2016  
 Date of Report: 03-15-2016

**MoldSTAT™: Supplementary Statistical Spore Trap Report**

**Location: 21603001-1TM04**

% 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: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.8571	dF: 4 Result: 1.0000 Critical value: N/A Outside Similar: N/A	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					160
Basidiospores					270
Cladosporium					53
Smuts, Periconia, Myxomycetes					13
<b>Total</b>					490

**Location: 21603001-1TM05**

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.4000	dF: 4 Result: 0.3500 Critical value: N/A Outside Similar: N/A	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Smuts, Periconia, Myxomycetes					13
<b>Total</b>					67

**Location: 21603001-1TM06**

% 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: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.0000	dF: 5 Result: -0.6250 Critical value: 0.8000 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Rusts					13
Smuts, Periconia, Myxomycetes					27
<b>Total</b>					40

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
 Re: 21603001-1

Date of Sampling: 03-11-2016  
 Date of Receipt: 03-14-2016  
 Date of Report: 03-15-2016

**MoldSTAT™: Supplementary Statistical Spore Trap Report**

**Location: 21603001-1TM08**

% 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: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.1286 Critical value: 0.7714 Outside Similar: No	Score: 113 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Bipolaris/Drechslera group					13
Nigrospora					13
Smuts, Periconia, Myxomycetes					13
<b>Total</b>					<b>93</b>

**Location: 21603001-1TM09**

% 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: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.8000	dF: 3 Result: 1.0000 Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					110
Basidiospores					160
<b>Total</b>					<b>270</b>

**Location: 21603001-1TM10**

% 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: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.4000	dF: 4 Result: 0.3500 Critical value: N/A Outside Similar: N/A	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Other brown					13
<b>Total</b>					<b>67</b>

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
 Re: 21603001-1

Date of Sampling: 03-11-2016  
 Date of Receipt: 03-14-2016  
 Date of Report: 03-15-2016

**MoldSTAT™: Supplementary Statistical Spore Trap Report**

**Location: 21603001-1TM11**

% 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: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.8000	dF: 3 Result: 1.0000 Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					53
Basidiospores					110
<b>Total</b>					160

**Location: 21603001-1TM12**

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 4%	dF: 9 Result: 7.8136 Critical value: 16.9190 Inside Similar: Yes	Result: 0.8571	dF: 4 Result: 1.0000 Critical value: N/A Outside Similar: N/A	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					160
Basidiospores					590
Cladosporium					110
Nigrospora					13
<b>Total</b>					870

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

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

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

Client: Hygiene Technologies International, Inc.  
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
Re: 21603001-1Date of Sampling: 03-11-2016  
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Date of Report: 03-15-2016**MoldSTAT™: Supplementary Statistical Spore Trap Report**

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

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

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 Re: 21603001-1

Date of Sampling: 03-11-2016  
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**MoldSCORE™: Spore Trap Report**

**Outdoor Sample: 21603001-1TM01OUT**

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
<b>Generally able to grow indoors*</b>						
Alternaria					3	40
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					14	750
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					ND	< 13
Stachybotrys					ND	< 13
Torula					ND	< 13
<b>Seldom found growing indoors**</b>						
Ascospores					35	1,900
Basidiospores					35	1,900
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes					1	13
<b>Total</b>						<b>4,533</b>

**Location: 21603001-1TM02**

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
<b>Generally able to grow indoors*</b>						
Alternaria					ND	< 13
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
<b>Seldom found growing indoors**</b>						
Ascospores					ND	< 13
Basidiospores					ND	< 13
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes					ND	< 13
<b>Total</b>						<b>N/A</b>

MoldSCORE‡			Score
100	200	300	
			100
			100
			100
			100
			100
			100
			100
			100
			100
			100
			100
			100
			100
<b>Final MoldSCORE</b>			<b>100</b>

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 Re: 21603001-1

Date of Sampling: 03-11-2016  
 Date of Receipt: 03-14-2016  
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**MoldSCORE™: Spore Trap Report**

**Location:** 21603001-1TM03

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
<b>Generally able to grow indoors*</b>									
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
<b>Seldom found growing indoors**</b>									
Ascospores					1	53			112
Basidiospores					ND	< 13			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
<b>Total</b>						<b>53</b>			
							<b>Final MoldSCORE</b>		<b>100</b>

**Location:** 21603001-1TM04

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
<b>Generally able to grow indoors*</b>									
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
<b>Seldom found growing indoors**</b>									
Ascospores					3	160			100
Basidiospores					5	270			107
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					1	13			102
<b>Total</b>						<b>493</b>			
							<b>Final MoldSCORE</b>		<b>107</b>

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
 Re: 21603001-1

Date of Sampling: 03-11-2016  
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**MoldSCORE™: Spore Trap Report**

**Location:** 21603001-1TM05

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
<b>Generally able to grow indoors*</b>									
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
<b>Seldom found growing indoors**</b>									
Ascospores					ND	< 13			100
Basidiospores					1	53			103
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					1	13			103
<b>Total</b>						<b>67</b>			
							<b>Final MoldSCORE</b>		<b>103</b>

**Location:** 21603001-1TM06

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
<b>Generally able to grow indoors*</b>									
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
<b>Seldom found growing indoors**</b>									
Ascospores					ND	< 13			100
Basidiospores					ND	< 13			100
Rusts					1	13			105
Smuts, Periconia, Myxomycetes					2	27			105
<b>Total</b>						<b>40</b>			
							<b>Final MoldSCORE</b>		<b>105</b>

Client: Hygiene Technologies International, Inc.  
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 Re: 21603001-1

Date of Sampling: 03-11-2016  
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**MoldSCORE™: Spore Trap Report**

**Location:** 21603001-1TM08

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
<b>Generally able to grow indoors*</b>									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group	█				1	13			105
Chaetomium					ND	< 13			100
Cladosporium					ND	< 13			100
Curvularia					ND	< 13			100
Nigrospora	█				1	13			105
Penicillium/Aspergillus types†					ND	< 13			100
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
<b>Seldom found growing indoors**</b>									
Ascospores					ND	< 13			100
Basidiospores	█				1	53			101
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes	█				1	13			103
<b>Total</b>						<b>93</b>			
							<b>Final MoldSCORE</b>		<b>113</b>

**Location:** 21603001-1TM09

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
<b>Generally able to grow indoors*</b>									
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
<b>Seldom found growing indoors**</b>									
Ascospores	█				2	110			100
Basidiospores	█				3	160			105
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
<b>Total</b>						<b>267</b>			
							<b>Final MoldSCORE</b>		<b>105</b>

Client: Hygiene Technologies International, Inc.  
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**MoldSCORE™: Spore Trap Report**

**Location:** 21603001-1TM10

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
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
Other brown	█				1	13				105
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores					ND	< 13				100
Basidiospores	█				1	53				103
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
<b>Total</b>						<b>67</b>				<b>Final MoldSCORE 105</b>

**Location:** 21603001-1TM11

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
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
<b>Seldom found growing indoors**</b>										
Ascospores	█				1	53				100
Basidiospores	█				2	110				105
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
<b>Total</b>						<b>160</b>				<b>Final MoldSCORE 105</b>





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**MoldSCORE™: Spore Trap Report**

**Location:** 21603001-1TM03

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
<b>Generally able to grow indoors*</b>									
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
<b>Seldom found growing indoors**</b>									
Ascospores					1	53			107
Basidiospores					ND	< 13			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
<b>Total</b>						<b>53</b>			<b>Final MoldSCORE 100</b>

**Location:** 21603001-1TM04

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
<b>Generally able to grow indoors*</b>									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium					1	53			103
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†					ND	< 13			100
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
<b>Seldom found growing indoors**</b>									
Ascospores					3	160			100
Basidiospores					5	270			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					1	13			103
<b>Total</b>						<b>493</b>			<b>Final MoldSCORE 103</b>

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 Re: 21603001-1

Date of Sampling: 03-11-2016  
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**MoldSCORE™: Spore Trap Report**

**Location:** 21603001-1TM05

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
<b>Generally able to grow indoors*</b>									
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
<b>Seldom found growing indoors**</b>									
Ascospores					ND	< 13			100
Basidiospores					1	53			101
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					1	13			103
<b>Total</b>						<b>67</b>			
<b>Final MoldSCORE</b>								<b>103</b>	

**Location:** 21603001-1TM06

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
<b>Generally able to grow indoors*</b>									
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
<b>Seldom found growing indoors**</b>									
Ascospores					ND	< 13			100
Basidiospores					ND	< 13			100
Rusts					1	13			105
Smuts, Periconia, Myxomycetes					2	27			105
<b>Total</b>						<b>40</b>			
<b>Final MoldSCORE</b>								<b>105</b>	

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
 Re: 21603001-1

Date of Sampling: 03-11-2016  
 Date of Receipt: 03-14-2016  
 Date of Report: 03-15-2016

**MoldSCORE™: Spore Trap Report**

**Location:** 21603001-1TM08

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
<b>Generally able to grow indoors*</b>									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group	█				1	13			105
Chaetomium					ND	< 13			100
Cladosporium					ND	< 13			100
Curvularia					ND	< 13			100
Nigrospora	█				1	13			105
Penicillium/Aspergillus types†					ND	< 13			100
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
<b>Seldom found growing indoors**</b>									
Ascospores					ND	< 13			100
Basidiospores	█				1	53			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes	█				1	13			103
<b>Total</b>						<b>93</b>			<b>Final MoldSCORE 113</b>

**Location:** 21603001-1TM09

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
<b>Generally able to grow indoors*</b>									
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
<b>Seldom found growing indoors**</b>									
Ascospores	█				2	110			105
Basidiospores	█				3	160			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
<b>Total</b>						<b>267</b>			<b>Final MoldSCORE 100</b>

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
 Re: 21603001-1

Date of Sampling: 03-11-2016  
 Date of Receipt: 03-14-2016  
 Date of Report: 03-15-2016

**MoldSCORE™: Spore Trap Report**

**Location:** 21603001-1TM10

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
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
Other brown	█				1	13				105
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores					ND	< 13				100
Basidiospores	█				1	53				101
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
<b>Total</b>						<b>67</b>				<b>Final MoldSCORE 105</b>

**Location:** 21603001-1TM11

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
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
<b>Seldom found growing indoors**</b>										
Ascospores	█				1	53				100
Basidiospores	█				2	110				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
<b>Total</b>						<b>160</b>				<b>Final MoldSCORE 100</b>





Report for:

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

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Regarding: Project: 21603001-1  
EML ID: 1513955

Approved by:

Dates of Analysis:  
Spore trap analysis: 03-25-2016

Technical Manager  
Louise White

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

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

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

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

Client: Hygiene Technologies International, Inc.  
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
Re: 21603001-1

Date of Sampling: 03-24-2016  
Date of Receipt: 03-24-2016  
Date of Report: 03-25-2016

**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21603001-1TM13OUT		21603001-1TM14		21603001-1TM15		21603001-1TM16	
Comments (see below)	A		None		None		None	
Lab ID-Version‡:	7003433-1		7003434-1		7003435-1		7003436-1	
Analysis Date:	03/25/2016		03/25/2016		03/25/2016		03/25/2016	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	1	13						
Ascospores	22	1,200			1	53		
Basidiospores	154	8,200	1	53	1	53	1	53
Chaetomium	1	13						
Cladosporium	29	710			1	53		
Fusarium								
Myrothecium								
Nigrospora								
Other brown								
Other colorless								
Penicillium/Aspergillus types†	7	370						
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes	4	53					1	13
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		2+		2+		3+	
Hyphal fragments/m3	13		< 13		< 13		< 13	
Pollen/m3	26,000		< 13		27		40	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
<b>§ TOTAL SPORES/m3</b>		<b>11,000</b>		<b>53</b>		<b>160</b>		<b>67</b>

Comments: A) 21 of the raw count *Cladosporium* spores were present as a single clump.

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

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

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

The analytical sensitivity is the spores/m<sup>3</sup> divided by the raw count, expressed in spores/m<sup>3</sup>. The limit of detection is the analytical sensitivity (in spores/m<sup>3</sup>) multiplied by the sample volume (in liters) divided by 1000 liters.

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/m<sup>3</sup> 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: 21603001-1

Date of Sampling: 03-24-2016  
 Date of Receipt: 03-24-2016  
 Date of Report: 03-25-2016

**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21603001-1TM17		21603001-1TM18		21603001-1TM19	
Comments (see below)	None		None		None	
Lab ID-Version†:	7003437-1		7003438-1		7003439-1	
Analysis Date:	03/25/2016		03/25/2016		03/25/2016	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores			1	53	2	110
Chaetomium						
Cladosporium			1	53		
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other brown					2	27
Other colorless						
Penicillium/Aspergillus types†	1	53				
Pithomyces						
Rusts	1	13				
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	< 13		< 13		13	
Pollen/m3	< 13		53		27	
Skin cells (1-4+)	1+		1+		1+	
Sample volume (liters)	75		75		75	
<b>§ TOTAL SPORES/m3</b>		<b>67</b>		<b>110</b>		<b>130</b>

**Comments:**

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

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

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

The analytical sensitivity is the spores/m<sup>3</sup> divided by the raw count, expressed in spores/m<sup>3</sup>. The limit of detection is the analytical sensitivity (in spores/m<sup>3</sup>) multiplied by the sample volume (in liters) divided by 1000 liters.

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/m<sup>3</sup> 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: 21603001-1

Date of Sampling: 03-24-2016  
Date of Receipt: 03-24-2016  
Date of Report: 03-25-2016

**MoldRANGE™: Extended Outdoor Comparison**

**Outdoor Location: 21603001-1TM13OUT**

Fungi Identified	Outdoor data	Typical Outdoor Data for: March in California† (n‡=22640)						Typical Outdoor Data for: The entire year in California† (n‡=230445)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
<b>Generally able to grow indoors*</b>													
Alternaria	13	13	13	27	53	80	45	13	13	27	65	110	53
Bipolaris/Drechslera group	-	7	13	13	27	40	8	7	13	13	27	53	12
Chaetomium	13	7	13	13	27	40	12	8	13	13	27	48	19
Cladosporium	710	100	160	430	1,100	1,900	95	110	210	610	1,700	2,800	97
Curvularia	-	7	12	13	27	40	2	7	13	13	27	53	6
Nigrospora	-	7	10	13	13	27	4	7	13	13	27	53	9
Other brown	-	13	13	13	33	53	30	13	13	13	40	53	34
Penicillium/Aspergillus types	370	53	53	180	480	750	80	53	100	210	610	1,000	84
Stachybotrys	-	7	13	13	27	56	3	7	13	13	33	67	4
Torula	-	8	13	13	40	67	8	8	13	13	40	67	11
<b>Seldom found growing indoors**</b>													
Ascospores	1,200	27	53	160	480	860	78	27	53	110	370	750	71
Basidiospores	8,200	67	120	430	1,400	2,800	96	53	80	260	1,000	2,400	93
Rusts	-	13	13	13	53	80	23	13	13	13	53	87	26
Smuts, Periconia, Myxomycetes	53	13	13	27	67	110	55	13	13	40	110	200	68
<b>§ TOTAL SPORES/m3</b>	11,000												

†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. Lakhpreet Sandhu  
 Re: 21603001-1

Date of Sampling: 03-24-2016  
 Date of Receipt: 03-24-2016  
 Date of Report: 03-25-2016

**MoldSTAT™: Supplementary Statistical Spore Trap Report**

**Outdoor Summary: 21603001-1TM13OUT:**

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria					7 - 40 - 590	45
Ascospores					13 - 210 - 6,100	76
Basidiospores					13 - 430 - 23,000	92
Chaetomium					7 - 13 - 160	9
Cladosporium					27 - 480 - 9,900	90
Penicillium/Aspergillus types					13 - 170 - 2,600	67
Smuts, Periconia, Myxomycetes					7 - 53 - 930	64
<b>Total</b>						11,000

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: 21603001-1TM14**

% 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: 0.9388 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.6964 Critical value: 0.6786 Outside Similar: Yes	Score: 101 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					
<b>Total</b>					

**Location: 21603001-1TM15**

% 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: 0.9388 Critical value: 11.0705 Inside Similar: Yes	Result: 0.6000	dF: 7 Result: 0.8839 Critical value: 0.6786 Outside Similar: Yes	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					
Basidiospores					
Cladosporium					
<b>Total</b>					

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
 Re: 21603001-1

Date of Sampling: 03-24-2016  
 Date of Receipt: 03-24-2016  
 Date of Report: 03-25-2016

**MoldSTAT™: Supplementary Statistical Spore Trap Report**

**Location: 21603001-1TM16**

% 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: 5 Result: 0.9388 Critical value: 11.0705 Inside Similar: Yes	Result: 0.4444	dF: 7 Result: 0.5089 Critical value: 0.6786 Outside Similar: No	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Smuts, Periconia, Myxomycetes					13
<b>Total</b>					<b>67</b>

**Location: 21603001-1TM17**

% 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: 5 Result: 0.9388 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: -0.0238 Critical value: 0.6190 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Penicillium/Aspergillus types					53
Rusts					13
<b>Total</b>					<b>67</b>

**Location: 21603001-1TM18**

% 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: 0.9388 Critical value: 11.0705 Inside Similar: Yes	Result: 0.4444	dF: 7 Result: 0.6964 Critical value: 0.6786 Outside Similar: Yes	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					53
<b>Total</b>					<b>110</b>

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
 Re: 21603001-1

Date of Sampling: 03-24-2016  
 Date of Receipt: 03-24-2016  
 Date of Report: 03-25-2016

**MoldSTAT™: Supplementary Statistical Spore Trap Report**

**Location:** 21603001-1TM19

<b>% of outdoor total spores/m3</b>	<b>Friedman chi-square* (indoor variation)</b>	<b>Agreement ratio** (indoor/outdoor)</b>	<b>Spearman rank correlation*** (indoor/outdoor)</b>	<b>MoldSCORE**** (indoor/outdoor)</b>	
Result: 1%	dF: 5 Result: 0.9388 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.2976 Critical value: 0.6190 Outside Similar: No	Score: 111 Result: Low	
<b>Species Detected</b>		<b>Spores/m3</b>			
		<100	1K	10K	>100K
Basidiospores					110
Other brown					27
<b>Total</b>					130

\* 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. Lakhpreet Sandhu  
 Re: 21603001-1

Date of Sampling: 03-24-2016  
 Date of Receipt: 03-24-2016  
 Date of Report: 03-25-2016

**MoldSCORE™: Spore Trap Report**

**Location:** 21603001-1TM15

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
<b>Generally able to grow indoors*</b>									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium	█				1	53			103
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†					ND	< 13			100
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
<b>Seldom found growing indoors**</b>									
Ascospores	█				1	53			114
Basidiospores	█				1	53			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
<b>Total</b>						<b>160</b>			
							<b>Final MoldSCORE</b>		<b>103</b>

**Location:** 21603001-1TM16

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
<b>Generally able to grow indoors*</b>									
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
<b>Seldom found growing indoors**</b>									
Ascospores					ND	< 13			100
Basidiospores	█				1	53			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes	█				1	13			103
<b>Total</b>						<b>67</b>			
							<b>Final MoldSCORE</b>		<b>103</b>

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
 Re: 21603001-1

Date of Sampling: 03-24-2016  
 Date of Receipt: 03-24-2016  
 Date of Report: 03-25-2016

**MoldSCORE™: Spore Trap Report**

**Location:** 21603001-1TM17

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
<b>Generally able to grow indoors*</b>									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium					ND	< 13			100
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†	█				1	53			108
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
<b>Seldom found growing indoors**</b>									
Ascospores					ND	< 13			100
Basidiospores					ND	< 13			100
Rusts	█				1	13			105
Smuts, Periconia, Myxomycetes					ND	< 13			100
<b>Total</b>						<b>67</b>			
							<b>Final MoldSCORE</b>		<b>108</b>

**Location:** 21603001-1TM18

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡		
	<100	1K	10K	>100K			100	200	300
<b>Generally able to grow indoors*</b>									
Alternaria					ND	< 13			100
Bipolaris/Drechslera group					ND	< 13			100
Chaetomium					ND	< 13			100
Cladosporium	█				1	53			103
Curvularia					ND	< 13			100
Nigrospora					ND	< 13			100
Penicillium/Aspergillus types†					ND	< 13			100
Stachybotrys					ND	< 13			100
Torula					ND	< 13			100
<b>Seldom found growing indoors**</b>									
Ascospores					ND	< 13			100
Basidiospores	█				1	53			100
Rusts					ND	< 13			100
Smuts, Periconia, Myxomycetes					ND	< 13			100
<b>Total</b>						<b>107</b>			
							<b>Final MoldSCORE</b>		<b>103</b>

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
 Re: 21603001-1

Date of Sampling: 03-24-2016  
 Date of Receipt: 03-24-2016  
 Date of Report: 03-25-2016

**MoldSCORE™: Spore Trap Report**

**Location:** 21603001-1TM19

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
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
Other brown	█				2	27	█			111
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
<b>Seldom found growing indoors**</b>										
Ascospores					ND	< 13	█			100
Basidiospores	█				2	110	█			101
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes					ND	< 13	█			100
<b>Total</b>						<b>133</b>	<b>Final MoldSCORE</b>			<b>111</b>

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

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Regarding: Project: 21603001-1; Random Sampling (Round 4)  
EML ID: 1516756

Approved by:

Dates of Analysis:  
Spore trap analysis: 03-31-2016

Technical Manager  
Louise White

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

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

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

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

Client: Hygiene Technologies International, Inc.  
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
Re: 21603001-1; Random Sampling (Round 4)

Date of Sampling: 03-30-2016  
Date of Receipt: 03-30-2016  
Date of Report: 03-31-2016

**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21603001-1TM20OUT		21603001-1TM21		21603001-1TM22		21603001-1TM23	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	7018392-1		7018393-1		7018394-1		7018395-1	
Analysis Date:	03/31/2016		03/31/2016		03/31/2016		03/31/2016	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	2	27						
Ascospores	8	430						
Basidiospores	44	2,300	1	53				
Chaetomium								
Cladosporium	5	270			1	53		
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Oidium	4	53					1	13
Other colorless								
Penicillium/Aspergillus types†	6	320			1	53		
Pithomyces								
Rusts	2	27						
Smuts, Periconia, Myxomycetes	5	67			1	13		
Stachybotrys								
Stemphylium								
Torula	1	13						
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		2+		2+		2+	
Hyphal fragments/m3	< 13		13		< 13		< 13	
Pollen/m3	210		13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
<b>§ TOTAL SPORES/m3</b>		<b>3,500</b>		<b>53</b>		<b>120</b>		<b>13</b>

**Comments:**

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

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

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

The analytical sensitivity is the spores/m<sup>3</sup> divided by the raw count, expressed in spores/m<sup>3</sup>. The limit of detection is the analytical sensitivity (in spores/m<sup>3</sup>) multiplied by the sample volume (in liters) divided by 1000 liters.

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/m<sup>3</sup> 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: 21603001-1; Random Sampling (Round 4)

Date of Sampling: 03-30-2016  
Date of Receipt: 03-30-2016  
Date of Report: 03-31-2016

**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	21603001-1TM24		21603001-1TM25		21603001-1TM26	
Comments (see below)	None		None		None	
Lab ID-Version†:	7018396-1		7018397-1		7018398-1	
Analysis Date:	03/31/2016		03/31/2016		03/31/2016	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores			1	53	3	160
Chaetomium						
Cladosporium	2	110			1	53
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Oidium						
Other colorless						
Penicillium/Aspergillus types†					7	370
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	
<b>§ TOTAL SPORES/m3</b>		<b>110</b>		<b>53</b>		<b>590</b>

**Comments:**

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

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

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

The analytical sensitivity is the spores/m<sup>3</sup> divided by the raw count, expressed in spores/m<sup>3</sup>. The limit of detection is the analytical sensitivity (in spores/m<sup>3</sup>) multiplied by the sample volume (in liters) divided by 1000 liters.

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/m<sup>3</sup> 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: 21603001-1; Random Sampling (Round 4)

Date of Sampling: 03-30-2016  
Date of Receipt: 03-30-2016  
Date of Report: 03-31-2016

**MoldRANGE™: Extended Outdoor Comparison**

**Outdoor Location: 21603001-1TM20OUT**

Fungi Identified	Outdoor data	Typical Outdoor Data for: March in California† (n‡=22640)						Typical Outdoor Data for: The entire year in California† (n‡=230445)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
<b>Generally able to grow indoors*</b>													
Alternaria	27	13	13	27	53	80	45	13	13	27	65	110	53
Bipolaris/Drechslera group	-	7	13	13	27	40	8	7	13	13	27	53	12
Chaetomium	-	7	13	13	27	40	12	8	13	13	27	48	19
Cladosporium	270	100	160	430	1,100	1,900	95	110	210	610	1,700	2,800	97
Curvularia	-	7	12	13	27	40	2	7	13	13	27	53	6
Nigrospora	-	7	10	13	13	27	4	7	13	13	27	53	9
Penicillium/Aspergillus types	320	53	53	180	480	750	80	53	100	210	610	1,000	84
Stachybotrys	-	7	13	13	27	56	3	7	13	13	33	67	4
Torula	13	8	13	13	40	67	8	8	13	13	40	67	11
<b>Seldom found growing indoors**</b>													
Ascospores	430	27	53	160	480	860	78	27	53	110	370	750	71
Basidiospores	2,300	67	120	430	1,400	2,800	96	53	80	260	1,000	2,400	93
Oidium	53	13	13	20	53	80	23	13	13	13	50	80	19
Rusts	27	13	13	13	53	80	23	13	13	13	53	87	26
Smuts, Periconia, Myxomycetes	67	13	13	27	67	110	55	13	13	40	110	200	68
<b>§ TOTAL SPORES/m3</b>	<b>3,500</b>												

†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: 21603001-1; Random Sampling (Round 4)

Date of Sampling: 03-30-2016  
 Date of Receipt: 03-30-2016  
 Date of Report: 03-31-2016

**MoldSTAT™: Supplementary Statistical Spore Trap Report**

**Outdoor Summary: 21603001-1TM20OUT:**

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria					7 - 40 - 590	45
Ascospores					13 - 210 - 6,100	76
Basidiospores					13 - 430 - 23,000	92
Cladosporium					27 - 480 - 9,900	90
Oidium					7 - 13 - 210	11
Penicillium/Aspergillus types					13 - 170 - 2,600	67
Rusts					7 - 20 - 360	20
Smuts, Periconia, Myxomycetes					7 - 53 - 930	64
Torula					7 - 13 - 170	9
<b>Total</b>						

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: 21603001-1TM21**

% 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: 2.9429 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.6542 Critical value: 0.5833 Outside Similar: Yes	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Basidiospores				
	<b>Total</b>				

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
 Re: 21603001-1; Random Sampling (Round 4)

Date of Sampling: 03-30-2016  
 Date of Receipt: 03-30-2016  
 Date of Report: 03-31-2016

**MoldSTAT™: Supplementary Statistical Spore Trap Report**

**Location: 21603001-1TM22**

% 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: 2.9429 Critical value: 11.0705 Inside Similar: Yes	Result: 0.5000	dF: 9 Result: 0.4042 Critical value: 0.5833 Outside Similar: No	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Penicillium/Aspergillus types					53
Smuts, Periconia, Myxomycetes					13
<b>Total</b>					120

**Location: 21603001-1TM23**

% 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: 2.9429 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.2792 Critical value: 0.5833 Outside Similar: No	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Oidium					13
<b>Total</b>					13

**Location: 21603001-1TM24**

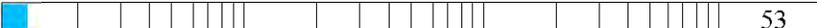
% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 3%	dF: 5 Result: 2.9429 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.4292 Critical value: 0.5833 Outside Similar: No	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					110
<b>Total</b>					110

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
 Re: 21603001-1; Random Sampling (Round 4)

Date of Sampling: 03-30-2016  
 Date of Receipt: 03-30-2016  
 Date of Report: 03-31-2016

**MoldSTAT™: Supplementary Statistical Spore Trap Report**

**Location: 21603001-1TM25**

% 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: 2.9429 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.6542 Critical value: 0.5833 Outside Similar: Yes	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
<b>Total</b>					53

**Location: 21603001-1TM26**

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 16%	dF: 5 Result: 2.9429 Critical value: 11.0705 Inside Similar: Yes	Result: 0.5000	dF: 9 Result: 0.6917 Critical value: 0.5833 Outside Similar: Yes	Score: 150 Result: Medium	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					160
Cladosporium					53
Penicillium/Aspergillus types					370
<b>Total</b>					590

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

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

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

Client: Hygiene Technologies International, Inc.  
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
Re: 21603001-1; Random Sampling (Round 4)

Date of Sampling: 03-30-2016  
Date of Receipt: 03-30-2016  
Date of Report: 03-31-2016

**MoldSTAT™: Supplementary Statistical Spore Trap Report**

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

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



Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
 Re: 21603001-1; Random Sampling (Round 4)

Date of Sampling: 03-30-2016  
 Date of Receipt: 03-30-2016  
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**MoldSCORE™: Spore Trap Report**

**Location:** 21603001-1TM22

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium	█				1	53				103
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†	█				1	53				107
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes	█				1	13				102
<b>Total</b>						<b>120</b>				<b>Final MoldSCORE 107</b>

**Location:** 21603001-1TM23

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
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
<b>Seldom found growing indoors**</b>										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Oidium	█				1	13				105
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
<b>Total</b>						<b>13</b>				<b>Final MoldSCORE 100</b>

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
 Re: 21603001-1; Random Sampling (Round 4)

Date of Sampling: 03-30-2016  
 Date of Receipt: 03-30-2016  
 Date of Report: 03-31-2016

**MoldSCORE™: Spore Trap Report**

**Location:** 21603001-1TM24

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			Score
	<100	1K	10K	>100K			100	200	300	
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					2	110				107
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores					ND	< 13				100
Basidiospores					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
<b>Total</b>						<b>107</b>				<b>107</b>
							<b>Final MoldSCORE</b>			<b>107</b>

**Location:** 21603001-1TM25

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			Score
	<100	1K	10K	>100K			100	200	300	
<b>Generally able to grow indoors*</b>										
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
<b>Seldom found growing indoors**</b>										
Ascospores					ND	< 13				100
Basidiospores					1	53				102
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes					ND	< 13				100
<b>Total</b>						<b>53</b>				<b>102</b>
							<b>Final MoldSCORE</b>			<b>102</b>

Client: Hygiene Technologies International, Inc.  
 C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu  
 Re: 21603001-1; Random Sampling (Round 4)

Date of Sampling: 03-30-2016  
 Date of Receipt: 03-30-2016  
 Date of Report: 03-31-2016

**MoldSCORE™: Spore Trap Report**

**Location:** 21603001-1TM26

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
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†	█	█			7	370	150			
Stachybotrys					ND	< 13	100			
Torula					ND	< 13	100			
<b>Seldom found growing indoors**</b>										
Ascospores					ND	< 13	100			
Basidiospores	█				3	160	100			
Rusts					ND	< 13	100			
Smuts, Periconia, Myxomycetes					ND	< 13	100			
<b>Total</b>						<b>587</b>	<b>Final MoldSCORE 150</b>			

\* 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.







001513955

# HYGIENE TECHNOLOGIES INTERNATIONAL

3625 DEL AMO BOULEVARD, SUITE 180, TORRANCE, CA 90503 • (310) 370-8370 • FAX (310) 370-2474

## Request For Analysis

Project Number/Purchase Order: 21603001-1Date Submitted: 03-24-16Project Contact: L. Sandhu/K.HsiTurnaround Required: NormalLab Destination: EMLAB P & KLab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21603001-1TM13OUT	75 L	Air-O-Cell	Spore Trap Analysis ( Total Fungi)
21603001-1TM14	75 L	Air-O-Cell	Spore Trap Analysis ( Total Fungi)
21603001-1TM15	75 L	Air-O-Cell	Spore Trap Analysis ( Total Fungi)
21603001-1TM16	75 L	Air-O-Cell	Spore Trap Analysis ( Total Fungi)
21603001-1TM17	75 L	Air-O-Cell	Spore Trap Analysis ( Total Fungi)
21603001-1TM18	75 L	Air-O-Cell	Spore Trap Analysis ( Total Fungi)
21603001-1TM19	75 L	Air-O-Cell	Spore Trap Analysis ( Total Fungi)

Special Instructions : Random Sampling ( Round 3 )1. Sampled by: [Signature] on 03-24-16@ 0925 hrsReceived by: Christa Chilton 3/24 12:352. Relinquished by: [Signature] on 03-24-16@ 12:35 hrs

Received by: \_\_\_\_\_

3. Relinquished by: \_\_\_\_\_

Received by: \_\_\_\_\_

Please include signature, date, and time

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 Abuja • Beijing



001516756

# HYGIENE TECHNOLOGIES INTERNATIONAL

3625 DEL AMO BOULEVARD, SUITE 160, TORRANCE, CA 90503 • (310) 370-8370 • FAX (310) 370-2474

## Request For Analysis

Project Number/Purchase Order: 21603001-1

Date Submitted: 03-30-16

Project Contact: L. Sandhu/K. Hsi

Turnaround Required: Normal

Lab Destination: EMLAB P & K

Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21603001-1TM20OUT	75 L	Air-O-Cell	Spore Trap Analysis ( Total Fungi)
21603001-1TM21	75 L	Air-O-Cell	Spore Trap Analysis ( Total Fungi)
21603001-1TM22	75 L	Air-O-Cell	Spore Trap Analysis ( Total Fungi)
21603001-1TM23	75 L	Air-O-Cell	Spore Trap Analysis ( Total Fungi)
21603001-1TM24	75 L	Air-O-Cell	Spore Trap Analysis ( Total Fungi)
21603001-1TM25	75 L	Air-O-Cell	Spore Trap Analysis ( Total Fungi)
21603001-1TM26	75 L	Air-O-Cell	Spore Trap Analysis ( Total Fungi)

Special Instructions : Random Sampling ( Round 4 )

1. Sampled by: [Signature] on 03-30-16 @ 1023 hrs

Received by: Christa Carter 3/30 12:07

2. Relinquished by: [Signature] on 03-30-16 @ 1207 hrs

Received by: \_\_\_\_\_

3. Relinquished by: \_\_\_\_\_

Received by: \_\_\_\_\_

Please include signature, date, and time

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