



HYGIENETECH

Hygiene Technologies International, Inc.

3625 Del Amo Boulevard, Suite 180
Torrance, California 90503-1643
(310) 370-8370
(310) 370-7026 FAX
www.hygienetech.com

April 4, 2008

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

Document No. 20712001.2

Attention: David Gau

Regarding: Limited Indoor Air Quality Survey
21ST Floor

Dear Mr. Gau:

On various dates in December of 2007 and February of 2008, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted a limited indoor air quality survey on the 21st floor of the California State Board of Equalization building located at the above mentioned address. At the time of the survey, various samples were collected and direct-reading instruments were used to assess the general indoor air quality on that floor, with a clear emphasis on establishing fungal growth exposure potential data. I have enclosed our report, which included general observations, sample and direct-reading results, a discussion of the data, conclusions, and recommendations.

If you have any comments or questions regarding the information contained in this report, please do not hesitate to contact our offices directly at (310) 370-8370.

Sincerely,

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

Brian P. Daly, CIH, PE
President



HYGIENETECH

Hygiene Technologies International, Inc.

3625 Del Amo Boulevard, Suite 180
Torrance, California 90503-1643
(310) 370-8370
(310) 370-7026 FAX
www.hygienetech.com

LIMITED INDOOR AIR QUALITY SURVEY

**450 N STREET – 21ST FLOOR
SACRAMENTO, CALIFORNIA**

PREPARED FOR:

**CALIFORNIA STATE BOARD OF EQUALIZATION
450 N STREET
SACRAMENTO, CALIFORNIA**

PREPARED BY:

**HYGIENE TECHNOLOGIES INTERNATIONAL, INC.
3625 DEL AMO BOULEVARD, SUITE 180
TORRANCE, CALIFORNIA**

APRIL 4, 2008



1.0 BACKGROUND

On various dates in December of 2007 and February of 2008, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted a limited indoor air quality survey on the 21st Floor of the California State Board of Equalization Building located at 450 N Street in Sacramento, California. During the survey, a variety of samples were collected and direct-reading instruments were used to assess the general indoor air quality on the 21st floor of the subject building. Various air and surface samples were collected in order to assess fungal growth exposure potentials and to establish fungal growth assessment information on selected building material surfaces. In addition, air samples were collected throughout the floor for fibrous dust, microbial volatile organic compounds (MVOCs), and total dust analysis and direct-reading instruments were used to determine airborne volatile organic compounds (VOCs), carbon dioxide (CO₂), ozone (O₃), air temperature, and relative humidity.

2.0 OBSERVATIONS

The interior building materials of 21st Floor included, but were not limited to, metal window frames; painted gypsum board and/or metal window sills; metal doorjambes and door frames; painted gypsum board walls in the general work areas; tile covered walls and painted gypsum board ceilings in the restrooms; suspended 2' by 4' ceiling tiles in the general work areas; vinyl cove base; carpet flooring in the general work areas; and ceramic or vinyl tile flooring in the restrooms and break rooms.

The furnishings in the surveyed areas included desks, upholstered chairs, shelves, fabric covered cubicles, office supplies, computers, and other electronic office equipment. The furnishings did not appear to support fungal growth, nor did they appear to have been affected in any other manner by water intrusion.

3.0 SAMPLING AND ANALYSIS

Air samples were collected and 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. Other samples were collected for airborne fibers, MVOCs, and total dust determinations using SKC® brand Airchek® 52 sampling pumps and the appropriate sampling media. Pump flow rates were established and verified using a BIOS DryCal DC-Lite primary flow meter. Those samples were collected and analyzed along with blanks (identical sampling media through which no air was drawn), when necessary, at laboratories accredited by the American Industrial Hygiene Association (AIHA) through successful participation in the National Institute for Occupational Safety and Health (NIOSH) Proficiency Analytical Testing Program. Direct-reading instruments were used to determine airborne O₃, and VOC levels, the results of which appear in Table 20711002-102 in Appendix A of this report. A discussion of the airborne CO₂ data, along with air temperature and relative humidity results, appears in Section 4.0 of this report. Additional information concerning the specific sampling and analytical methods appears below.



3.0 SAMPLING AND ANALYSIS (CONTINUED)

3.1 Airborne Total Fungi

Air samples for airborne total (viable and nonviable) fungi determinations were collected using a Zefon brand Bio-Pump™ equipped with Allergenco-D™ cassettes. All such samples were collected at various indoor locations and two samples were collected outdoors on each applicable survey date for comparison purposes. The resultant data, which are presented in spores/M³, appear in Table 20711002-64.

3.2 Airborne Viable Fungi

Air samples for airborne viable fungi determinations were collected on malt extract agar (MEA) using a Gast brand high volume air-sampling pump equipped with an Aerotech 6™ Single Stage Bioaerosol Sampler. Two outdoor samples were also collected on the applicable survey date for comparison purposes. The media was incubated prior to enumeration of colony-forming units per agar plate and the resultant data, presented in colony forming units per cubic meter of air (CFU/ M³), can be found in Table 20711002-68.

3.3 Surface Fungal Growth Potentials

Surface samples were collected for fungal growth assessment using Scotch® brand cellophane tape segments affixed to microscope slides. Additionally, surface fungi samples were collected from various heating, ventilating, and air conditioning (HVAC) supply air register surfaces using Healthlink® Transporters™ (Rayon tipped swabs immersed in 0.5 ml modified Stuart's transport medium). These data are presented in Table 20711002-66.

3.4 Airborne Fibrous Dust

Area air samples for fibrous dust were collected at stationary locations on 25-millimeter diameter, 0.8-micrometer pore size, mixed cellulose ester filters. The samples were analyzed by phase contrast microscopy (PCM) in accordance with the NIOSH Method 7400. These data are presented in fibers per cubic centimeter (f/cc) of air in Table 20712001-101.

3.5 Airborne Total Dust

Area air samples for total dust determination were collected at stationary locations on filter cassettes containing pre-weighed 37-millimeter diameter, polyvinyl chloride filters having a pore size of five micrometers. The samples were analyzed by gravimetric method in accordance with the NIOSH Method 0500. These data are presented in milligrams per cubic meter of air (mg/M³) and appear in Table 20712001-102.

3.6 Microbial Volatile Organic Compounds

Area samples for MVOCs were collected on solid sorbent tubes equipped with Sagelock fittings. The samples were analyzed by gas chromatography/ mass spectrometry, modified for MVOCs following AIHA field guide. These data are presented in mg/M³ and appear in Table 20802001-7.



3.0 SAMPLING AND ANALYSIS (CONTINUED)

3.7 Airborne Volatile Organic Compounds

Direct-reading air measurements for VOCs were also recorded at various locations on the 21st floor using a RAE Systems, Inc. Mini-RAE 2000 photoionization detector, which is capable of detecting a wide variety of unsaturated hydrocarbons at airborne concentrations ranging from 0.1 to 10,000 parts per million (ppm). Prior to the survey, this instrument was calibrated using a 100-ppm isobutylene gas standard. These data are presented in parts per million (ppm).

3.8 Airborne Ozone

Direct-reading air measurements for O₃ were recorded at various locations using a Dräger colorimetric detector tube apparatus with the appropriate detector tubes. The data are presented in ppm.

3.9 Airborne Carbon Dioxide

Direct-reading air measurements for airborne CO₂ concentrations were recorded at three stationary locations using a Young Environmental Systems (YES-206) data recorder. The data are presented in ppm.

3.10 Air Temperature and Relative Humidity

Air temperature and relative humidity data were recorded at three stationary locations using a YES-206 data recorder.

4.0 DISCUSSION

4.1 Airborne Total Fungi

The airborne total fungi data showed common spore types outdoors such as ascospores, basidiospores, *Cladosporium*, colorless spores typical of *Penicillium* and *Aspergillus* species, smuts, , with *Cladosporium* predominating. Indoors, the data showed airborne concentrations of common fungal spores that included one or more of the following: basidiospores, *Cladosporium*, colorless spores typical of *Penicillium* and *Aspergillus* species, other brown, and/or smuts. Indoors, 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 data recorded outdoors. These data are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.



4.0 DISCUSSION (CONTINUED)

4.2 Airborne Viable Fungi

The viable fungi data recorded outdoors showed an overall level of 247 CFU/M³ in both samples, with *Cladosporium* predominating. Indoors, low levels of common fungi were found including *Aspergillus fumigatus*, *A. niger*, *A. versicolor*, *Cladosporium*, non-sporulating fungi, *Penicillium*, and/or yeasts. Again, the data recorded were unremarkable and are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.

4.3 Surface Fungal Growth Potentials

The surface assessment data involving the samples collected from various cubicle partitions throughout the 21st Floor indicated no evidence of fungal growth or above-background levels of loose fungal spores on those surfaces. However, the surface assessment data involving samples collected from the HVAC supply air registers on the 21st Floor indicated low levels of *Alternaria* fungal growth or brown hyphae with no associated spores on five of the eight locations sampled. Be advised that visible accumulation of debris, dust, and other particulates was observed on the reverse side of all sampled HVAC supply air registers, and that such conditions are indicative of an environment that may promote fungal growth.

4.4 Airborne Fibrous Dust

The recorded in the surveyed areas indicated that airborne fibrous dusts were either not detected at or above the laboratory detection limit of 0.004 f/cc or were detected at levels of 0.006 and 0.007 f/cc. Because the samples were collected at stationary locations at approximate breathing zone height, the resultant data are expected to represent building occupant *exposure potentials* for those persons working in or passing through the areas monitored. These data, which are expected to represent employee *exposure potentials* to fibers of various types, including man-made and natural mineral fibers, cellulose (paper or wood composition), gypsum, and other fibrous dusts common in the environment, are well below the current Cal-OSHA 8-hour TWA PEL for asbestos fibers of 0.1 f/cc, the most restrictive exposure limit for fibrous dusts.

4.5 Airborne Total Dust

Common dust that is typically identified in buildings usually contains a wide variety of materials including, but not limited to, gypsum crystals, cellulosic particles, fiberglass fragments, mineral grains from soil, fungi spores, fine glass fibers, textile and wood fibers, iron or steel fragments, dead skin cells, insect parts, animal dander, and pollens. Generally, exposure to low levels of such materials does not produce ill effects in most persons. In fact, these so-called *nuisance dusts* have a long history of little adverse effect to the lungs and are not known to produce significant diseases or toxic effects, such as collagen (scar tissue) formation, when exposure are kept under reasonable control.

The data recorded in the surveyed areas showed that airborne respirable dust was not detected at or above the respective laboratory analytical detection limits of 0.1 or 0.09 mg/M³. Because the samples were collected at stationary locations at approximate breathing zone height, the resultant data are expected to represent building occupant *exposure potentials* for those persons working in or passing through the areas monitored. These data are well below the State of California,



4.0 DISCUSSION (CONTINUED)

4.5 Airborne Total Dust (Continued)

Department of Industrial Relations, Division of Occupational Safety and Health (Cal-OSHA) 8-hour time-weighted average (TWA) permissible exposure limit (PEL) for total dust of 10 mg/M³, as defined in Title 8 of the California Code of Regulations, Section 5155 (T8, CCR § 5155). Note that these data are also well below the American Conference of Governmental Industrial Hygienists 8-hour TWA threshold limit value (TLV-TWA) for particulate (not otherwise classified) of 10 mg/M³; the U.S. Environmental Protection Agency (EPA) National Ambient Air Quality Primary Standard of 0.26 mg/M³ (24-hour standard); and the American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc. (ASHRAE) theoretical value for non-occupational environments of 1/10 of the TLV.

4.6 Airborne Microbial Volatile Organic Compounds

Microbial Volatile Organic Compounds (MVOCs) are composed of low molecular weight alcohols, aldehydes, amines, ketones, terpenes, aromatic and chlorinated hydrocarbons, and sulfur-based compounds that are known to be byproducts of microbial metabolism. MVOCs have a very low odor threshold, thus, making them easily detectable by smell. They often have strong odors and are responsible for the smells generally associated with fungal growth.

The airborne MVOC data indicated the presence of 1-butanol at levels ranging from 612 ng/m³ to 28,091 ng/m³. Microbial growth related 1-butanol would not be expected to be present indoors without additional MVOCs such as ethanol, 1-octen-3-ol, 2-octen-1-ol, benzyl cyanide, 2-methyl-isoborneol, geosmin (1-10-dimethyl-*trans*-9-decalol), and/or terpenes also being present. The fact that 1-butanol alone was detected would indicate that its presence on the 21st Floor was most likely not fungal growth related and attributable personal products such as perfumes and other personal cosmetic products, many of which contain 1-butanol.

4.7 Airborne Volatile Organic Compounds

With the use of a direct-reading photoionization detector, VOCs were not detected at or above the instrument detection limit of 0.1 ppm. Because these data were recorded at stationary locations at approximate breathing zone height, the results are expected to represent building occupant *exposure* potentials for those persons occupying or passing through the areas monitored. These data were well below the surrogate Cal-OSHA PELs that are often used for comparative purposes regarding VOC exposures, such as those for gasoline, hexane, and varnish makers and painters (VM&P) naphtha.

4.8 Airborne Ozone

O₃ was not detected at or above the Dräger instrument detection limits of 0.05 ppm.

4.9 Airborne Carbon Dioxide

The direct-reading results indicated that CO₂ was detected at levels ranging from 360 to 620 ppm on the 21st Floor. While these data were somewhat higher than the expected outdoor CO₂ levels, which generally range between 320 and 350 ppm, they are considered normal for occupied indoor



4.0 DISCUSSION (CONTINUED)

4.9 Airborne Carbon Dioxide (Continued)

environments and they are all well below the Cal-OSHA 8-hour TWA PEL for CO₂ of 5000 ppm (T8, CCR, § 5155). They are also below the level of 1000 ppm, which is essentially equivalent to the recommended upper limit for building occupant comfort and odor control established by ASHRAE (not greater than 700 ppm above the outdoor CO₂ value) as stated in ASHRAE 62-2001.

Based on historic studies performed by HygieneTech, building occupant complaints of "stuffy" air often begin when CO₂ levels exceed 800 ppm. HygieneTech has also found that some sensitive persons may experience discomfort, including eye irritation and headache, when CO₂ levels reach 1,000 ppm. Such symptoms are not believed to be the result of an unhealthy exposure to CO₂; rather, they are thought to be the result of exposure to other common indoor air pollutants which, if not exhausted and/or diluted, can accumulate over time.

4.10 Air Temperature and Relative Humidity

Air temperatures ranged between 75.5 and 78.3 degrees Fahrenheit (°F) on the survey date. Based on the experience of HygieneTech, the air temperatures perceived as comfortable by most persons in office environments, and recommended by ASHRAE for occupant comfort, range between 68.0 and 74.5°F (winter) and 73.0 and 79.0°F (summer). The air temperatures recorded in the surveyed areas were generally higher than the comfort range recommended for the winter months.

Relative humidity data were recorded indoors at levels ranging from 19.1 to 21.9 percent. Such levels were slightly lower than the 20 to 60 percent relative humidity level range recommended by ASHRAE for occupant comfort. Note that HygieneTech recommends that the relative humidity in buildings not exceed 50 percent in order to limit the potential for fungal growth.

5.0 CONCLUSIONS

5.1 The airborne total and viable fungi data recorded in the surveyed areas showed airborne fungi levels that were generally below those recorded outdoors and therefore considered unremarkable. These data are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.

5.2 The surface fungal growth potentials data collected from the HVAC supply air registers indicated low levels of *Alternaria* fungal growth or brown hyphae with no associated spores on five of the eight HVAC supply air registers sampled. Be advised that visible accumulation of debris, dust, and other particulates was observed on the reverse side of all sampled HVAC supply air registers, and that such conditions are indicative of an environment that may promote fungal growth. However, note that the airborne fungi results discussed above would suggest that such fungal growth did not appear to have adversely affected the indoor air quality on the 21st Floor.



5.0 CONCLUSIONS (CONTINUED)

- 5.3 The airborne total and fibrous dust, VOC, and O₃ recorded during the survey were unremarkable. Collectively, the data were well below applicable Cal-OSHA 8-hour TWA PELs and/or other occupational, non-occupational, ASHRAE, or foreign guidelines. The data are not expected to represent conditions that pose a measurable health risk to the building occupants.
- 5.4 The airborne MVOC data indicated the presence of 1-butanol at levels ranging from 612 ng/m³ to 28,091 ng/m³. Microbial growth related 1-butanol would not be expected to be present indoors without additional MVOCs such as 1-octen-3-ol, 2-octen-1-ol, 2-methyl-isoborneol, geosmin (1-10-dimethyl-*trans*-9-decalol), and/or terpenes also being present. The fact that 1-butanol alone was detected would indicate that its presence on the 21st floor was most likely not fungal growth related and was attributable to personal products such as perfumes and other cosmetic products, many of which contain 1-butanol.
- 5.5 Air temperatures ranged between 75.5 and 78.3 degrees Fahrenheit (°F) on the survey date. Based on the experience of HygieneTech, the air temperatures perceived as comfortable by most persons in office environments, and recommended by ASHRAE for occupant comfort, range between 68.0 and 74.5°F (winter) and 73.0 and 79.0°F (summer). The air temperatures recorded in the surveyed areas were generally higher than the comfort range recommended for the winter months. Relative humidity data were recorded indoors at levels ranging from 19.1 to 21.9 percent, levels that were slightly lower than the 20 to 60 percent relative humidity level range recommended by ASHRAE for occupant comfort. Note that HygieneTech recommends that the relative humidity in buildings not exceed 50 percent in order to limit the potential for fungal growth.
- 5.6 Be advised that the data provided in this report only represent fungal growth and exposure potentials that existed at the time the survey was performed and at the precise sample locations only, the latter of which were selected based on the available background information provided. 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 survey.

6.0 RECOMMENDATIONS

All such recommendations are based strictly on the assessment information and analytical data that were available to HygieneTech at the time this report was prepared. Be advised that, in order to establish data that accurately reflects all the fungal growth sites in the school auditoriums, additional assessment evaluations may be required as more information is known regarding the history of water intrusion episodes in discrete building areas.

- 6.1 If not yet established, an accurate record of all air monitoring results should be maintained in accordance with Cal-OSHA regulation found in T8, CCR § 3204. All affected employees should be informed that the *exposure potential* data in this report exist and that those persons, or their representatives, have a right to access relevant exposure data and medical records.



6.0 RECOMMENDATIONS (CONTINUED)

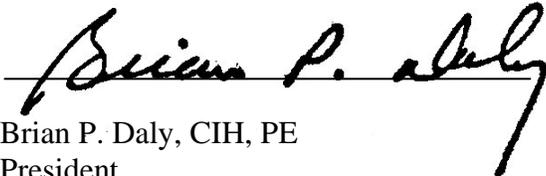
- 6.2 Routine cleaning of the HVAC supply air registers on the 21st Floor should be performed to preclude the build-up of dust and debris, which may potentially contribute to fungal growth on those surfaces.
- 6.3 Air temperatures and relative humidity levels on the 21st Floor should be adjusted to the appropriate ranges recommended by ASHRAE for occupant comfort.
- 6.4 Also be advised that the exposure data recorded during the survey may not be sufficiently broad to adequately assess the suitability of the indoor air quality for all individuals, particularly those who are extremely sensitive to certain chemical and/or biological substances or for those individuals with immune system deficiencies. Although not expected, if persons occupying or passing through the 21st Floor do experience non-specific ill effects of unknown etiology, then those affected should be referred to a medical professional in order to determine or specify the possible cause(s) of such reactions. If more information becomes available, further investigation and air monitoring may be warranted.

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.



Kenny K. Hsi, CIH
Technical Director

Date: April 4, 2008



Brian P. Daly, CIH, PE
President

Date: April 4, 2008

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

**TABLE 20711002-64
AIRBORNE TOTAL FUNGI RESULTS
21ST FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 6, 7, 10, 2007**

Page 1

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

SAMPLE NUMBER	20711002-TM01OUTCL	20711002-TM02CL	20711002-TM03CL	20711002-TM04CL
SAMPLING LOCATION/ACTIVITIES	Outdoors; 23 rd floor; northern deck; about center; approximately five feet above deck/Normal outdoor activities	Northern hallway; northwestern corner; approximately five feet above floor/ Normal office activities	Room 2102; between Columns M22 and N22; about center; approximately five feet above floor/Normal office activities	Room 2102; between Columns N22 and N21; about center; approximately five feet above floor/Normal office activities
DATE	12-06-07	12-06-07	12-06-07	12-06-07
START/STOP	9:20:00/9:25:00	9:41:00/9:46:00	10:00:00/10:05:00	10:07:00/10:12:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores				
Aureobasidium				
Basidiospores	53			
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	213	107		107
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	27	13	13	
Stachybotrys		13		
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	<13
Background particulates*	3+	3+	3+	3+
TOTAL **	293	133	13	107

*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+.

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 20711002-64
AIRBORNE TOTAL FUNGI RESULTS
21ST FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 6, 7, 10, 2007

Page 2

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

SAMPLE NUMBER	20711002-TM05CL	20711002-TM06CL	20711002-TM07CL	20711002-TM08CL
SAMPLING LOCATION/ACTIVITIES	Room 2102; between Columns N20 and N21; about center; approximately five feet above floor/Normal sampling activities	Room 2102; between Columns N19 and N20; about center; approximately five feet above floor/Normal sampling activities	Room 2102; between Columns N18 and N19; about center; approximately five feet above floor/Normal office activities	Room 2102; Column N18 area; eastern end; about center; approximately five feet above floor/Normal office activities
DATE	12-06-07	12-06-07	12-06-07	12-06-07
START/STOP	10:15:00/10:20:00	10:22:00/10:27:00	10:29:00/10:34:00	10:36:00/10:41:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrimum				
Ascospores				
Aureobasidium				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53	53		
Curvularia				
Epicoccum				
Nigrospora		13		
Oidium				
Penicillium/Aspergillus types				53
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	<13
Background particulates*	3+	3+	3+	2+
TOTAL**	53	66	<13	53

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

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 20711002-64
AIRBORNE TOTAL FUNGI RESULTS
21ST FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 6, 7, 10, 2007

Page 3

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

SAMPLE NUMBER	20711002-TM09CL	20711002-TM10CL	20711002-TM11CL	20711002-TM12CL
SAMPLING LOCATION/ACTIVITIES	Room 2102; eastern hallway; about center; approximately five feet above floor/ Normal office activities	Room 2103; entry way; about center; approximately five feet above floor/Normal office activities	Room 2102; between Columns K19 and K18; about center; approximately five feet above floor/Normal office activities	Room 2102; between Columns K19 and K20; about center; approximately five feet above floor/Normal office activities
DATE	12-06-07	12-06-07	12-06-07	12-06-07
START/STOP	10:50:00/10:55:00	10:57:00/11:02:00	11:05:00/11:10:00	11:15:00/11:20:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores				
Aureobasidium				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		53	53	53
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	<13
Background particulates*	3+	3+	2+	3+
TOTAL **	<13	53	53	53

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

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

**TABLE 20711002-64
AIRBORNE TOTAL FUNGI RESULTS
21ST FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 6, 7, 10, 2007**

Page 4

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

SAMPLE NUMBER	20711002-TM13CL	20711002-TM14CL	20711002-TM15CL	20711002-TM16CL
SAMPLING LOCATION/ACTIVITIES	Room 2102; between Columns K20 and K21; about center; approximately five feet above floor/Normal office activities	Room 2102; between Columns K21 and K22; about center; approximately five feet above floor/Normal office activities	Room 2102; between Columns K22 and L22; about center; approximately five feet above floor/Normal office activities	Room 2102; between Columns L22 and M22; about center; approximately five feet above floor/Normal office activities
DATE	12-06-07	12-06-07	12-06-07	12-06-07
START/STOP	11:25:00/11:30:00	11:33:00/11:38:00	11:40:00/11:45:00	11:55:00/12:00:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria		13	13	
Arthrimum				
Ascospores				
Aureobasidium				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	107	53	160	53
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Other browns	13			
Penicillium/Aspergillus types				53
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	27	<13	<13	<13
Background particulates*	2+	3+	3+	3+
TOTAL**	120	66	173	106

*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+.

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 20711002-64
AIRBORNE TOTAL FUNGI RESULTS
21ST FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 6, 7, 10, 2007

Page 5

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

SAMPLE NUMBER	20711002-TM17CL	20711002-TM18CL	20711002-TM19CL	20711002-TM20CL
SAMPLING LOCATION/ACTIVITIES	Southern hallway; at southeast corner; approximately five feet above floor/Normal office activities	Northern hallway; northeast corner; about center; approximately five feet above floor/Normal office activities	Southern hallway; southwestern corner; about center; approximately five feet above floor/Normal office activities	Southern end; Break Room; about center; approximately five feet above floor/ Sampling activities only
DATE	12-06-07	12-06-07	12-06-07	12-06-07
START/STOP	12:05:00/12:10:00	12:12:00/12:17:00	12:20:00/12:25:00	12:30:00/12:35:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrimum				
Ascospores				
Aureobasidium				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	160	53	53	
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Other brown			13	
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	13			
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	27	<13	<13	<13
Background particulates*	3+	3+	3+	1+
TOTAL**	173	53	66	<13

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

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 20711002-64
AIRBORNE TOTAL FUNGI RESULTS
21ST FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 6, 7, 10, 2007

Page 6

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

SAMPLE NUMBER	20711002-TM21OUTCL	20711002-TM22OUTCL	20711002-TM23CL	20711002-TM24CL
SAMPLING LOCATION/ACTIVITIES	Outdoors; 23 rd floor; northern deck; about center; approximately five feet above deck/Normal outdoor activities	Outdoors; 23rd floor; northern deck; about center; approximately five feet above deck/Normal outdoor activities	Room 2102; Cubicle 003; southeastern corner; approximately five feet above floor/Normal office activities	Elevator lobby; about center; approximately five feet above floor/Normal office activities
DATE	12-06-07	12-07-07	12-07-07	12-07-07
START/STOP	12:05:00/12:10:00	09:30:00/09:35:00	10:05:00/10:10:00	10:45:00/10:50:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores				
Aureobasidium		3,250		
Basidiospores		7,520	53	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	480	800	107	
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Penicillium/Aspergillus types		107		53
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	13	53		
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	13	53	<13	13
Background particulates*	3+	1+	2+	2+
TOTAL**	493	11,730	160	53

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

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 20711002-64
AIRBORNE TOTAL FUNGI RESULTS
21ST FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 6, 7, 10, 2007

Page 7

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

SAMPLE NUMBER	20711002-TM25OUTCL	20711002-TM26CL	20711002-TM27CL	20711002-TM28CL
SAMPLING LOCATION/ACTIVITIES	Outdoors; 23rd floor; northern deck; about center; approximately five feet above deck/Normal outdoor activities	Southeaster corner; approximately one foot west of Cubicle 18; within ceiling plenum/Sampling activities only	Southern end; Cubicle 24; about center; within ceiling plenum/Sampling activities only	Southwestern corner; approximately three feet north of Cubicle 30; within ceiling plenum/Sampling activities only
DATE	12-07-07	12-07-08	12-07-08	12-07-08
START/STOP	11:09:00/11:14:00	14:00:00/14:05:00	14:12:00/14:17:00	14:22:00/14:27:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria			13	
Arthrinium				
Ascospores	3,150			
Aureobasidium				
Basidiospores				
Bipolaris/Drechslera group	6,830			
Botrytis				
Chaetomium				
Cladosporium	1490	107	53	13
Curvularia				
Epicoccum				
Nigrospora				
Other brown	13			13
Oidium				13
Penicillium/Aspergillus types	160	53	13	53
Pithomyces				
Rusts				27
Smuts (Periconia, Myxomycetes)	13			
Stachybotrys				
Torula				13
Ulocladium				
Hyphal fragments	67	13	<13	13
Background particulates*	1+	2+	2+	2+
TOTAL**	11,656	160	79	132

*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+.

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 20711002-64
AIRBORNE TOTAL FUNGI RESULTS
21ST FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 6, 7, 10, 2007

Page 8

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

SAMPLE NUMBER	20711002-TM29CL	20711002-TM30CL	20711002-TM31CL	20711002-TM32CL
SAMPLING LOCATION/ACTIVITIES	Southwestern corner; about two feet east of Cubicle 58; within ceiling plenum/ Sampling activities only	Northwestern corner; at Cubicle 65; within ceiling plenum/ Sampling activities only	Northern end; at Cubicle 104; about center; within ceiling plenum/Sampling activities only	Northeastern end; at Cubicle 126.01; within ceiling plenum/Sampling activities only
DATE	12-07-08	12-07-08	12-10-07	12-10-07
START/STOP	14:31:00/14:36:00	14:55:00/15:00:00	11:10:00/11:15:00	11:25:00/11:30:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria			40	27
Arthrinium				
Ascospores		13		
Aureobasidium				
Basidiospores		13		13
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	160	160	107	53
Curvularia				
Epicoccum		13		
Nigrospora		13		
Other brown			40	
Oidium				
Penicillium/Aspergillus types	267		67	
Pithomyces				
Rusts		13		
Smuts (Periconia, Myxomycetes)	13			
Stachybotrys				
Torula				
Hyphal fragments	27	53	<13	<13
Background particulates*	2+	3+	2+	2+
TOTAL**	440	225	254	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+.

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 20711002-64
AIRBORNE TOTAL FUNGI RESULTS
21ST FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 6, 7, 10, 2007

Page 9

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

SAMPLE NUMBER	20711002-TM33CL	20712001-TM01OUTWF		
SAMPLING LOCATION/ACTIVITIES	Northeastern corner; at Cubicle 26; within ceiling plenum/Sampling activities only	Outdoors; about 20 feet west of building entrance door; approximately five feet above ground/Normal outdoor activities	This column intentionally left blank	This column intentionally left blank
DATE	12-10-07	12-10-07		
START/STOP	11:35:00/11:40:00	15:02:00/15:07:00		
SAMPLE TIME	5 minutes	5 minutes		
Alternaria				
Arthrinium				
Ascospores		67		
Basidiospores		133		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	27	427		
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types	13	320		
Pithomyces				
Rusts		13		
Smuts (Periconia, Myxomycetes)		40		
Stachybotrys				
Torula	13	13		
Ulocladium				
Hyphal fragments	27	<13		
Background particulates*	2+	2+		
TOTAL**	53	1,013		

*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+.

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 20711002-64
AIRBORNE TOTAL FUNGI RESULTS
21ST FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 6, 7, 10, 2007

Page 10

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

SAMPLE NUMBER				
SAMPLING LOCATION/ACTIVITIES				This column intentionally left blank
DATE				
START/STOP				
SAMPLE TIME				
Alternaria				
Arthrinium				
Ascospores				
Aureobasidium				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium				
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Torula				
Ulocladium				
Hyphal fragments				
Background particulates*				
TOTAL**				

*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+.

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 20711002-68
AIRBORNE VIABLE FUNGI RESULTS
21ST FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 6 AND 7, 2007

Page 1

Results reported in colony forming units per cubic meter of air (CFU/M³)

SAMPLE NUMBER	20711002-VM01OUTCL	20711002-VM02CL	20711002-VM03CL	20711002-VM04CL
SAMPLING LOCATION/ACTIVITIES	Outdoors; 23 rd floor; northern deck; about center; approximately five feet above deck/Normal outdoor activities	Room 2102; between M22 and N22; about center; approximately five feet above floor/Normal office activities	Room 2102; between N20 and N21; about center; approximately five feet above floor/Normal sampling activities	Room 2102; between N18; eastern end; about center; approximately five feet above floor/Normal office activities
DATE	12-06-07	12-06-07	12-06-07	12-06-07
START/STOP	13:00:00/13:02:00	13:16:00/13:18:00	13:22:00/13:24:00	13:28:00/13:30:00
SAMPLE TIME	2 minutes	2 minutes	2 minutes	2 minutes
Acremonium				
Alternaria				
Aspergillus flavus				
Aspergillus niger				
Aspergillus other				
Aspergillus versicolor				
Aureobasidium				
Beauveria				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	141	18	18	
Curvularia				
Epicoccum				
Fusarium				
Non-sporulating fungi	18			
Others				
Paecilomyces				
Penicillium	88	35	35	
Phoma/coelomycetes				
Sporobolomyces				
Stachybotrys				
Torula				
Trichoderma				
Ulocladium				
Yeasts		35		
TOTAL	247	88	53	<18

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 20711002-68
AIRBORNE VIABLE FUNGI RESULTS
21ST FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 6 AND 7, 2007

Page 2

Results reported in colony forming units per cubic meter of air (CFU/M³)

SAMPLE NUMBER	20711002-VM05CL	20711002-VM06CL	20711002-VM07CL	20711002-VM08CL
SAMPLING LOCATION/ACTIVITIES	Room 2103; at entry way; about center; approximately five feet above floor/Normal office activities	Room 2102; between K19 and K18; about center; approximately five feet above floor/Normal office activities	Room 2102; between K19 and K20; about center; approximately five feet above floor/Normal office activities	Room 2102; between K21 and K22; about center; approximately five feet above floor/Normal office activities
DATE	12-06-07	12-06-07	12-06-07	12-06-07
START/STOP	13:36:00/13:38:00	13:41:00/13:43:00	13:47:00/13:49:00	13:54:00/13:56:00
SAMPLE TIME	2 minutes	2 minutes	2 minutes	2 minutes
Acremonium				
Alternaria				
Aspergillus flavus				
Aspergillus niger		18		
Aspergillus other				
Aspergillus versicolor				
Aureobasidium				
Beauveria				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium			18	18
Curvularia				
Epicoccum				
Fusarium				
Memnoniella				
Myrothecium				
Non-sporulating fungi				
Others				
Paecilomyces				
Penicillium	35	18	35	18
Phoma/coelomycetes				
Sporobolomyces				
Stachybotrys				
Torula				
Trichoderma				
Ulocladium				
Yeasts			35	
TOTAL	35	36	88	36

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 20711002-68
AIRBORNE VIABLE FUNGI RESULTS
21ST FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 6 AND 7, 2007

Page 3

Results reported in colony forming units per cubic meter of air (CFU/M³)

SAMPLE NUMBER	20711002-VM09CL	20711002-VM10CL	20711002-VM11CL	20711002-VM12OUTCL
SAMPLING LOCATION/ACTIVITIES	Room 2102; between K22 and L22; about center; approximately five feet above floor/Normal office activities	Southern hallway; at southeast corner; about center; approximately five feet above floor/Normal office activities	Northern hallway; northwestern corner; about center; approximately five feet above floor/Normal office activities	Outdoors; 23 rd floor; northern deck; about center; approximately five feet above deck/Normal outdoor activities
DATE	12-06-07	12-06-07	12-06-07	12-06-07
START/STOP	14:06:00/14:08:00	14:15:00/14:17:00	14:24:00/14:26:00	16:07:00/16:09:00
SAMPLE TIME	2 minutes	2 minutes	2 minutes	2 minutes
Acremonium				
Alternaria				
Aspergillus fumigatus			18	
Aspergillus niger				35
Aspergillus other				
Aspergillus versicolor				18
Aureobasidium				
Beauveria				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	35	18	18	106
Epicoccum				
Fusarium				
Memnoniella				
Myrothecium				
Non-sporulating fungi				35
Others				
Paecilomyces				
Penicillium		18	18	53
Phoma/coelomycetes				
Sporobolomyces				
Stachybotrys				
Torula				
Trichoderma				
Ulocladium				
Yeasts	18			
TOTAL	53	36	54	247

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

**TABLE 20711002-68
AIRBORNE VIABLE FUNGI RESULTS
21ST FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 6 AND 7, 2007**

Page 4

Results reported in colony forming units per cubic meter of air (CFU/M³)

SAMPLE NUMBER	20711002-VM13CLOUT	20711002-VM14CL	20711002-VM15CL	20711002-VM16OUTCL
SAMPLING LOCATION/ACTIVITIES	Outdoors; 23 rd floor; northern deck; about center; approximately five feet above deck/Normal outdoor activities	Cubicle 003; southeastern corner; approximately five feet above floor/Normal office activities	Elevator lobby; about center; approximately five feet above floor/Normal office activities	Outdoors; 23 rd floor; northern deck; about center; approximately five feet above deck/Normal outdoor activities
DATE	12-07-07	12-07-07	12-07-07	12-07-07
START/STOP	09:32:00/09:34:00	10:07:00/10:09:00	10:47:00/10:49:00	16:07:00/16:09:00
SAMPLE TIME	2 minutes	2 minutes	2 minutes	2 minutes
Acremonium				
Alternaria		18		
Aspergillus fumigatus				
Aspergillus niger				
Aspergillus other				
Aspergillus versicolor				
Aureobasidium				
Beauveria				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	848			936
Curvularia				
Epicoccum	18			35
Fusarium				
Memnoniella				
Myrothecium				
Non-sporulating fungi	53		18	71
Others				
Paecilomyces				
Penicillium	35			18
Phoma/coelomycetes				
Sporobolomyces				
Stachybotrys				
Torula				
Trichoderma				
Ulocladium				
Yeasts	53			53
TOTAL	1,007	18	18	1,113

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 20711002-66
SURFACE FUNGAL GROWTH POTENTIALS
21ST FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 7, 2007

Page 1

SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	MISCELLANEOUS FUNGI/POLLEN*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
20711002-TL202CL	Southeast corner; Cubicle 18; northern cubicle partition; about center; from horizontal surface of plastic	Light	None	None	None	Background
20711002-TL203CL	Southeast corner; Cubicle 17; western cubicle partition; about center; from horizontal surface of plastic	Moderate	Very few	None	None	Background
20711002-TL204CL	Southern end; Cubicle 025; outer cubicle partition; about center; from horizontal surface	Light	None	None	None	Background
20711002-TL205CL	Southern end; Cubicle 34; southern cubicle partition; about center; from horizontal surface of plastic	Light	None	None	None	Background
20711002-TL206CL	Southwestern corner; Cubicle 30; northern cubicle partition; at western end; about center; from horizontal surface of plastic	Light	None	None	None	Background
20711002-TL207CL	Southwestern corner; southern hallway; ceiling; about one foot east of western perimeter wall; from reverse side of ceiling tile	Heavy	Very few	None	None	Background
20711002-TL208CL	Southern end; Cubicle 42; northern cubicle partition; from horizontal surface of plastic	Light	None	None	None	Background
20711002-TL209CL	Southern end; Cubicle 46; northern cubicle partition; from horizontal surface of plastic	Light	Very few	None	None	Background
20711002-TL210CL	Southwestern corner; Cubicle 51; eastern cubicle partition; about center; from vertical surface of fabric	Scant	None	None	None	Background

*Includes basidiospores (mushroom spores), myxomycetes, plant pathogens such as ascospores, rusts and smuts, and a mix of saprophytic genera with no particular spore type predominating (indicative of normal trapping).

**Quantities of fungi are graded (from least to greatest) as <1+ to 4+.

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 20711002-66
SURFACE FUNGAL GROWTH POTENTIALS
21ST FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 7, 2007

Page 2

SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	MISCELLANEOUS FUNGI/POLLEN*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
20711002-TL211CL	Southwestern corner; Cubicle 51; western cubicle partition; about center; from horizontal surface of plastic	Light	None	None	None	Background
20711002-TL212CL	Southwestern corner; Cubicle 64; western cubicle partition; from horizontal surface of plastic	Moderate	Very few	None	None	Background
20711002-TL213CL	Room 2102; western end; Cubicle 56; northwestern cubicle partition; about center; from horizontal surface of plastic	Scant	None	None	None	Background
20711002-TL214CL	Room 2102; western end; Cubicle 68.02; northeastern cubicle partition; about center; from horizontal surface	Light	None	None	None	Background
20711002-TL215CL	Northwestern corner; Cubicle 104; northeastern cubicle partition; about center; from horizontal surface of plastic	Light	None	None	None	Background
20711002-TL216CL	Northern end; Cubicle 108; northeastern cubicle partition; about center; from horizontal surface of plastic	Light	None	None	None	Background
20711002-TL217CL	Northern end; Cubicle 111; southeast cubicle partition; about center; from horizontal surface of plastic	Light	None	None	None	Background
20711002-TL218CL	Northern end; Cubicle 126; southeast Cubicle partition; about center; from horizontal surface of plastic	Light	None	None	None	Background

*Includes basidiospores (mushroom spores), myxomycetes, plant pathogens such as ascospores, rusts and smuts, and a mix of saprophytic genera with no particular spore type predominating (indicative of normal trapping).

**Quantities of fungi are graded (from least to greatest) as <1+ to 4+.

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 20711002-66
SURFACE FUNGAL GROWTH POTENTIALS
21ST FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 7, 2007

Page 3

SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	MISCELLANEOUS FUNGI/POLLEN*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
20711002-TL219CL	Eastern end; Cubicle 119; eastern cubicle partition; about center; from horizontal surface of plastic	Light	None	None	None	Background
20711002-TL220CL	Eastern end; Cubicle 122; northeastern cubicle partition; about center; from horizontal surface of plastic	Light	Very few	None	None	Background
20711002-S101CL	Southeastern corner; Cubicle 18; ceiling; from reverse side of HVAC supply air register	Very heavy	Very few	2+ <i>Alternaria</i> species (spores, hyphae)	None	Fungal growth
20711002-S102CL	Southern end; Cubicle 025; ceiling; from reverse side of HVAC supply air register	Very heavy	Very few	1+ <i>Alternaria</i> species (spores, hyphae)	None	Fungal growth
20711002-S103CL	Southwestern corner; Cubicle 30; ceiling; from reverse side of HVAC supply air register	Very heavy	Very few	1+ <i>Alternaria</i> species (spores, hyphae)	None	Fungal growth
20711002-S104CL	Southwestern corner; Cubicle 058; ceiling; from reverse side of HVAC supply air register	Very heavy	Very few	1+ <i>Alternaria</i> species (spores, hyphae)	None	Fungal growth
20711002-S105CL	Northwestern corner; cubicle 65; ceiling; from reverse side of HVAC supply air register	Very heavy	Very few	<1+ brown hyphae with no associated spores, ID unknown	None	Minimal fungal growth
20711002-S106CL	Northwestern corner; Cubicle 104; ceiling; from reverse side of HVAC supply air register	Moderate	Very few	None	None	Background
20711002-S107CL	Northeastern corner; Cubicle 126; ceiling; from reverse side of HVAC supply air register	Heavy	Very few	None	None	Background
20711002-S108CL	Northeastern corner; Cubicle 26; ceiling; from reverse side of HVAC supply air register	Heavy	Very few	None	None	Background

*Includes basidiospores (mushroom spores), myxomycetes, plant pathogens such as ascospores, rusts and smuts, and a mix of saprophytic genera with no particular spore type predominating (indicative of normal trapping).

**Quantities of fungi are graded (from least to greatest) as <1+ to 4+.

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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

APPENDIX A



TABLE 20712001-101
AIRBORNE FIBERS RESULTS
21ST FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 14 AND 17, 2005

NAME/ REFERENCE	DATE	LOCATION/ ACTIVITIES	PPE USED	SAMPLE NUMBER	START/ STOP	SAMPLE TIME	CONTAMINANT	RESULTS (f/cc)	PEL
Area Sample	12-14-07	Room 2103; about center; approximately five feet above floor/Normal office activities	N/A	20712001 -F01CL	10:20/ 18:46	261 minutes	Fibers	<0.004	0.1
Area Sample	12-14-07	Room 2102; Column K18 area; adjacent to Cubicle 20; about five feet above floor/Normal office activities	N/A	20712001 -F02CL	10:25/ 18:48	503 minutes	Fibers	<0.004	0.1
Area Sample	12-14-07	Room 2002; Column K20 area; adjacent to Cubicle 25; about five feet above floor/Normal office activities	N/A	20712001 -F03CL	10:30/ 18:50	500 minutes	Fibers	<0.004	0.1
Area Sample	12-14-07	Room 2102; Column K22 area; at Cubicle 30; about five feet above floor/Normal office activities	N/A	20712001 -F04CL	10:42/ 18:42	480 minutes	Fibers	<0.004	0.1
Area Sample	12-14-07	Room 2102; Column K22 area; at Cubicle 60; about five feet above floor/Normal office activities	N/A	20712001 -F05CL	10:45/ 18:45	480 minutes	Fibers	<0.004	0.1
Blank	12-14-07	N/A	N/A	20712001 -F06	N/A	N/A	Fibers	All data blank corrected	N/A
Area Sample	12-17-07	Elevator lobby; about center; approximately five feet above floor/Normal office activities	N/A	20712001 -F07CL	9:30/ 18:35	545 minutes	Fibers	0.006	0.1
Area Sample	12-17-07	Room 2102; area between Columns M22 and N22; about five feet above floor/Normal office activities	N/A	20712001 -F08CL	9:35/ 18:36	541 minutes	Fibers	<0.004	0.1
Area Sample	12-17-07	Room 2102; area between Columns M22 and L22; approximately five feet above floor/Normal office activities	N/A	20712001 -F09CL	9:40/ 18:38	538 minutes	Fibers	0.007	0.1
Area Sample	12-17-07	Room 2102; Column N18 area; about 2 feet north of column; approximately five feet above floor/Normal office activities	N/A	20712001 -F10CL	9:45/ 18:39	534 minutes	Fibers	<0.004	0.1
Area Sample	12-17-07	Southern hallway; southeastern corner; about center; approximately five feet above floor/Normal office activities	N/A	20712001 -F11CL	9:50/ 18:40	530 minutes	Fibers	0.006	0.1
Blank	12-17-07	N/A	N/A	20712001 -F12CL	N/A	N/A	Fibers	All data blank corrected	N/A

LEGEND

PPE: Personal protective equipment

N/A: Not applicable

PEL: Cal-OSHA 8-hour time-weighted average permissible exposure limit

<: Less than

f/cc: Fibers per cubic centimeter of air

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 20712001-102
INDUSTRIAL HYGIENE AIR MONITORING RESULTS
21ST FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 14 AND 17, 2007

NAME/ REFERENCE	DATE	LOCATION/ ACTIVITIES	PPE USED	SAMPLE NUMBER	START/ STOP	SAMPLE TIME	CONTAMINANT	RESULTS (mg/m ³)	PEL (mg/m ³)
Area Sample	12-14-07	Room 2103; about center; approximately five feet above floor/Normal office activities	N/A	20712001 -TD01CL	10:20/ 18:46	506 minutes	Total dust	<0.1	10
Area Sample	12-14-07	Room 2102; Column K18 area; adjacent to Cubicle 20; about five feet above floor/Normal office activities	N/A	20712001 -TD02CL	10:25/ 18:48	503 minutes	Total dust	<0.1	10
Area Sample	12-14-07	Room 2002; Column K20 area; adjacent to Cubicle 25; about five feet above floor/Normal office activities	N/A	20712001 -TD03CL	10:30/ 18:50	500 minutes	Total dust	<0.1	10
Area Sample	12-14-07	Room 2102; Column K22 area; at Cubicle 30; about five feet above floor/Normal office activities	N/A	20712001 -TD04CL	10:42/ 18:42	480 minutes	Total dust	<0.1	10
Area Sample	12-14-07	Room 2102; Column K22 area; at Cubicle 60; about five feet above floor/Normal office activities	N/A	20712001 -TD05CL	10:45/ 18:45	480 minutes	Total dust	<0.1	10
Blank	12-14-07	N/A	N/A	20712001 -TD06	N/A	N/A	Total dust	All data blank corrected	N/A
Area Sample	12-17-07	Elevator lobby; about center; approximately five feet above floor/Normal office activities	N/A	20712001 -TD07CL	9:30/ 18:35	545 minutes	Total dust	<0.09	10
Area Sample	12-17-07	Room 2102; area between Columns M22 and N22; about five feet above floor/Normal office activities	N/A	20712001 -TD08CL	9:35/ 18:36	541 minutes	Total dust	<0.09	10
Area Sample	12-17-07	Room 2102; area between Columns M22 and L22; approximately five feet above floor/Normal office activities	N/A	20712001 -TD09CL	9:40/ 18:38	538 minutes	Total dust	<0.09	10
Area Sample	12-17-07	Room 2102; Column N18 area; about 2 feet north of column; approximately five feet above floor/Normal office activities	N/A	20712001 -TD10CL	9:45/ 18:39	534 minutes	Total dust	<0.9	10
Area Sample	12-17-07	Southern hallway; southeastern corner; about center; approximately five feet above floor/Normal office activities	N/A	20712001 -TD11CL	9:50/ 18:40	530 minutes	Total dust	<0.09	10
Blank	12-17-07	N/A	N/A	20712001 -TD12CL	N/A	N/A	Total dust	All data blank corrected	N/A

LEGEND

PPE: Personal protective equipment

N/A: Not applicable

PEL: Cal-OSHA 8-hour time-weighted average permissible exposure limit

<: Less than

mg/M³: Milligrams per cubic meter

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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

APPENDIX A



TABLE 20802001-7
MICROBIAL VOLATILE ORGANIC COMPOUNDS
21ST FLOOR
SACRAMENTO, CALIFORNIA
FEBRUARY 5, 2008

Page 1

NAME/ REFERENCE	LOCATION/ ACTIVITIES	PPE USED	SAMPLE NUMBER	START/ STOP	SAMPLE TIME	CONTAMINANT	RESULTS (mg/m ³)	PEL (mg/m ³)
Area Sample	Elevator lobby; adjacent to western partition wall; approximately five feet above floor/Normal office activities	N/A	20802001- M01	11:28/ 12:58	90 minutes	3-Methylfuran	nd	N/A
						2-Methyl-1-propanol	nd	N/A
						1-Butanol	2,383 x10 ⁻⁶	300
						3-Methyl-2-butanol	nd	N/A
						2-Pentanol	nd	N/A
						3-Methyl-2-butanol	nd	N/A
						Methyl disulfide	nd	N/A
						Ethyl isobutyrate	nd	N/A
						2-Hexanone	nd	410
						2-Heptanone	nd	468
						5-Methyl-3-heptanone	nd	130
						1-Octen-3-ol	nd	N/A
						3-Octanone	nd	N/A
						3-Octanol	nd	N/A
						2-Pentylfuran	nd	N/A
						2-Octen-1-ol	nd	N/A
						2-Methoxy-2-1(methylethyl) pyrazine	nd	N/A
						2-Nonanone	nd	N/A
						Fenchone	nd	N/A
						2-Methyl-isoborneol	nd	N/A
a-Terpineol	nd	N/A						
Borneol	nd	N/A						
Geosmin	nd	N/A						
Thujopsene	nd	N/A						

LEGEND

PPE: Personal protective equipment
N/A: Not applicable
PEL: Cal-OSHA 8-hour time-weighted average permissible exposure limit

<: Less than
mg/M³: Milligrams per cubic meter
nd: Not detected

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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

APPENDIX A



TABLE 20802001-7
MICROBIAL VOLATILE ORGANIC COMPOUNDS
21ST FLOOR
SACRAMENTO, CALIFORNIA
FEBRUARY 5, 2008

Page 2

NAME/ REFERENCE	LOCATION/ ACTIVITIES	PPE USED	SAMPLE NUMBER	START/ STOP	SAMPLE TIME	CONTAMINANT	RESULTS (mg/m ³)	PEL (mg/m ³)
Area Sample	Cubicle 45; southwestern corner; approximately five feet above floor/Normal office activities	N/A	20802001-M02	11:30/ 13:00	90 minutes	3-Methylfuran	nd	N/A
						2-Methyl-1-propanol	nd	N/A
						1-Butanol	612 x10 ⁻⁶	300
						3-Methyl-2-butanol	nd	N/A
						2-Pentanol	nd	N/A
						3-Methyl-2-butanol	nd	N/A
						Methyl disulfide	nd	N/A
						Ethyl isobutyrate	nd	N/A
						2-Hexanone	nd	410
						2-Heptanone	nd	468
						5-Methyl-3-heptanone	nd	130
						1-Octen-3-ol	nd	N/A
						3-Octanone	nd	N/A
						3-Octanol	nd	N/A
						2-Pentylfuran	nd	N/A
						2-Octen-1-ol	nd	N/A
						2-Methoxy-2-1(methylethyl) pyrazine	nd	N/A
						2-Nonanone	nd	N/A
						Fenchone	nd	N/A
						2-Methyl-isoborneol	nd	N/A
a-Terpineol	nd	N/A						
Borneol	nd	N/A						
Geosmin	nd	N/A						
Thujopsene	Nd	N/A						

LEGEND

PPE: Personal protective equipment
N/A: Not applicable
PEL: Cal-OSHA 8-hour time-weighted average permissible exposure limit

<: Less than
mg/M³: Milligrams per cubic meter
nd: Not detected

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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

APPENDIX A



TABLE 20802001-7
MICROBIAL VOLATILE ORGANIC COMPOUNDS
21ST FLOOR
SACRAMENTO, CALIFORNIA
FEBRUARY 5, 2008

Page 3

NAME/ REFERENCE	LOCATION/ ACTIVITIES	PPE USED	SAMPLE NUMBER	START/ STOP	SAMPLE TIME	CONTAMINANT	RESULTS (mg/m ³)	PEL (mg/m ³)
Area Sample	Cubicle 6; about center; approximately five feet above floor/Normal office activities	N/A	20802001-M03	13:10/ 14:40	90 minutes	3-Methylfuran	nd	N/A
						2-Methyl-1-propanol	nd	N/A
						1-Butanol	2,897 x10 ⁻⁶	300
						3-Methyl-2-butanol	nd	N/A
						2-Pentanol	nd	N/A
						3-Methyl-2-butanol	nd	N/A
						Methyl disulfide	nd	N/A
						Ethyl isobutyrate	nd	N/A
						2-Hexanone	nd	410
						2-Heptanone	nd	468
						5-Methyl-3-heptanone	nd	130
						1-Octen-3-ol	nd	N/A
						3-Octanone	nd	N/A
						3-Octanol	nd	N/A
						2-Pentylfuran	nd	N/A
						2-Octen-1-ol	nd	N/A
						2-Methoxy-2-1(methylethyl) pyrazine	nd	N/A
						2-Nonanone	nd	N/A
						Fenchone	nd	N/A
						2-Methyl-isoborneol	nd	N/A
a-Terpineol	nd	N/A						
Borneol	nd	N/A						
Geosmin	nd	N/A						
Thujopsene	Nd	N/A						

LEGEND

PPE: Personal protective equipment
N/A: Not applicable
PEL: Cal-OSHA 8-hour time-weighted average permissible exposure limit

<: Less than
mg/M³: Milligrams per cubic meter
nd: Not detected

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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

APPENDIX A



TABLE 20802001-7
MICROBIAL VOLATILE ORGANIC COMPOUNDS
21ST FLOOR
SACRAMENTO, CALIFORNIA
FEBRUARY 5, 2008

Page 4

NAME/ REFERENCE	LOCATION/ ACTIVITIES	PPE USED	SAMPLE NUMBER	START/ STOP	SAMPLE TIME	CONTAMINANT	RESULTS (mg/m ³)	PEL (mg/m ³)
Area Sample	Cubicle 117; northwestern corner; approximately five feet above floor/Normal office activities	N/A	20802001-M04	13:13/ 14:43	90 minutes	3-Methylfuran	nd	N/A
						2-Methyl-1-propanol	nd	N/A
						1-Butanol	28,091 x10 ⁻⁶	300
						3-Methyl-2-butanol	nd	N/A
						2-Pentanol	nd	N/A
						3-Methyl-2-butanol	nd	N/A
						Methyl disulfide	nd	N/A
						Ethyl isobutyrate	nd	N/A
						2-Hexanone	nd	410
						2-Heptanone	nd	468
						5-Methyl-3-heptanone	nd	130
						1-Octen-3-ol	nd	N/A
						3-Octanone	nd	N/A
						3-Octanol	nd	N/A
						2-Pentylfuran	nd	N/A
						2-Octen-1-ol	nd	N/A
						2-Methoxy-2-1(methylethyl) pyrazine	nd	N/A
						2-Nonanone	nd	N/A
						Fenchone	nd	N/A
						2-Methyl-isoborneol	nd	N/A
a-Terpineol	nd	N/A						
Borneol	nd	N/A						
Geosmin	nd	N/A						
Thujopsene	nd	N/A						

LEGEND

PPE: Personal protective equipment
N/A: Not applicable
PEL: Cal-OSHA 8-hour time-weighted average permissible exposure limit

<: Less than
mg/M³: Milligrams per cubic meter
nd: Not detected

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 20211002-102
DIRECT-READING RESULTS
21ST FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 6, 2007

LOCATION/SITE ACTIVITIES	SAMPLE TIME	CONTAMINANT	RESULTS (ppm)	COMMENTS
Room 2102; Cubicle 018; about center; approximately five feet above floor/Normal office activities	17:04/17:08	Volatile Organic Compounds Ozone	< 0.1 < 0.05	N/A
Room 2102; Cubicle 19; about center; approximately five feet above floor/Normal office activities	17:10/17:14	Volatile Organic Compounds Ozone	<0.1 <0.05	N/A
Room 2102; Cubicle 66; about center; approximately five feet above floor/Normal office activities	17:20/17:24	Volatile Organic Compounds Ozone	< 0.1 <0.05	N/A
Room 2102; Cubicle 45; about center; approximately five feet above floor/Normal office activities	17:27/17:31	Volatile Organic Compounds Ozone	< 0.1 <0.05	N/A

LEGEND

ND: Not detected
<: Less than

N/A: Not applicable
ppm: Parts per million



EMLab P&K

Report for:

Mr. Wes Frey
Hygiene Technologies International, Inc.: Northern California
3127 Bowen Island Street
West Sacramento, CA 95691

Regarding: Project: 20711002
 EML ID: 367305

Approved by:

Lab Manager
Dr. Kamashwaran Ramanathan

Dates of Analysis:
Spore trap analysis: 12-11-2007

Project SOPs: Spore trap analysis (I100000)

This coversheet is included with your report in order to comply with AIHA and ISO accreditation requirements.

For clarity, we report the number of significant digits as calculated; but, due to the nature of this type of biological data, the number of significant digits that is used for interpretation should generally be one or two. 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 corrections of results is not a standard practice. 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.

Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20711002

Date of Sampling: 12-07-2007
Date of Receipt: 12-07-2007
Date of Report: 12-11-2007

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20711002-TM01OutCL		20711002-TM02CL		20711002-TM03CL		20711002-TM04CL		20711002-TM05CL	
Comments (see below)	None		None		None		None		None	
Lab ID-Version‡:	1608499-1		1608500-1		1608501-1		1608502-1		1608503-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria										
Arthrinium										
Ascospores*										
Aureobasidium										
Basidiospores*	1	53								
Bipolaris/Drechslera group										
Botrytis										
Chaetomium										
Cladosporium	4	213	2	107			2	107	1	53
Curvularia										
Epicoccum										
Fusarium										
Myrothecium										
Nigrospora										
Other brown										
Other colorless										
Penicillium/Aspergillus types†										
Pithomyces										
Rusts*										
Smuts*, Periconia, Myxomycetes*	2	27	1	13	1	13				
Stachybotrys			1	13						
Stemphylium										
Torula										
Ulocladium										
Unknown										
Zygomycetes										
Background debris (1-4+)††	3+		3+		3+		3+		3+	
Hyphal fragments/m3	< 13		< 13		< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13		< 13		< 13	
Skin cells (1-4+)	1+		2+		2+		2+		1+	
Sample volume (liters)	75		75		75		75		75	
TOTAL SPORE/m3		293		133		13		107		53

Comments:

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.
† 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 Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.
‡ A "Version" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20711002

Date of Sampling: 12-07-2007
 Date of Receipt: 12-07-2007
 Date of Report: 12-11-2007

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20711002-TM06CL		20711002-TM07CL		20711002-TM08CL		20711002-TM09CL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1608504-1		1608505-1		1608506-1		1608507-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*								
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	1	53						
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora	1	13						
Other brown								
Other colorless								
Penicillium/Aspergillus types†					1	53		
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Unknown								
Zygomycetes								
Background debris (1-4+)††	3+		3+		2+		3+	
Hyphal fragments/m3	< 13		< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	2+		1+		1+		2+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		66		< 13		53		< 13

Comments:

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

† 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 Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.

‡ A "Version" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20711002

Date of Sampling: 12-07-2007
Date of Receipt: 12-07-2007
Date of Report: 12-11-2007

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20711002-TM010CL		20711002-TM011CL		20711002-TM012CL		20711002-TM013CL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1608508-1		1608509-1		1608510-1		1608511-1	
	raw ct.	spores/m3						
Alternaria								
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*								
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	1	53	1	53	1	53	2	107
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown							1	13
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Unknown								
Zygomycetes								
Background debris (1-4+)††	3+		2+		3+		2+	
Hyphal fragments/m3	< 13		< 13		< 13		27	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	2+		1+		2+		1+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		53		53		53		120

Comments:

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.
 † 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 Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.
 ‡ A "Version" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20711002

Date of Sampling: 12-07-2007
Date of Receipt: 12-07-2007
Date of Report: 12-11-2007

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20711002-TM014CL		20711002-TM015CL		20711002-TM016CL		20711002-TM017CL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1608512-1		1608513-1		1608514-1		1608515-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	1	13	1	13				
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*								
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	1	53	3	160	1	53	3	160
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown								
Other colorless								
Penicillium/Aspergillus types†					1	53		
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*							1	13
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Unknown								
Zygomycetes								
Background debris (1-4+)††	3+		3+		3+		3+	
Hyphal fragments/m3	< 13		< 13		< 13		27	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	1+		2+		1+		1+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		66		173		106		173

Comments:

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.
 † 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 Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.
 ‡ A "Version" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20711002

Date of Sampling: 12-07-2007
Date of Receipt: 12-07-2007
Date of Report: 12-11-2007

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20711002-TM018CL		20711002-TM019CL		20711002-TM020CL		20711002-TM021CL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1608516-1		1608517-1		1608518-1		1608519-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*								
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	1	53	1	53			9	480
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown			1	13				
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*							1	13
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Unknown								
Zygomycetes								
Background debris (1-4+)††	3+		3+		1+		3+	
Hyphal fragments/m3	< 13		< 13		< 13		13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		53		66		< 13		493

Comments:

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.
 † 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 Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.
 ‡ A "Version" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20711002

Date of Sampling: 12-07-2007
Date of Receipt: 12-07-2007
Date of Report: 12-11-2007

MoldRANGE™: Extended Outdoor Comparison**Outdoor Location: 20711002-TM01OutCL**

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: December				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	-	7	25	210	40	7	27	230	61
Bipolaris/Drechslera group	-	7	13	190	15	7	13	120	14
Chaetomium	-	7	13	130	11	7	13	110	19
Cladosporium	213	27	390	6,900	92	53	640	6,700	98
Curvularia	-	7	20	530	14	7	13	210	7
Nigrospora	-	7	13	170	12	7	13	170	8
Penicillium/Aspergillus types	-	27	210	2,600	87	44	210	2,600	89
Stachybotrys	-	7	13	310	3	7	13	340	5
Torula	-	7	13	150	6	7	13	150	13
Seldom found growing indoors**									
Ascospores	-	13	110	2,800	66	13	110	1,700	73
Basidiospores	53	13	290	12,000	89	13	270	7,100	95
Rusts	-	7	13	200	14	7	13	270	29
Smuts, Periconia, Myxomycetes	27	7	27	360	62	8	40	480	72
TOTAL SPORES/M3	293								

† The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 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, 2.5% 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.

‡ The Typical Outdoor Data by Location represents the typical outdoor spore levels for the region indicated for the entire year. As with the Typical Outdoor Data by Date, the four columns represent the frequency of occurrence and the typical low, medium, and high concentration values for the spore type indicated. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

*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.

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.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20711002

Date of Sampling: 12-07-2007
 Date of Receipt: 12-07-2007
 Date of Report: 12-11-2007

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 20711002-TM01OutCL:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores	ND				13 - 160 - 4,300	76
Basidiospores	53				13 - 320 - 14,000	93
Cladosporium	213				52 - 530 - 8,500	95
Penicillium/Aspergillus types	ND				27 - 210 - 2,600	86
Smuts, Periconia, Myxomycetes	27				7 - 40 - 770	71
Total	293					

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: 20711002-TM02CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 45%	dF: 19 Result: 7.2347 Critical value: 30.1435 Inside Similar: Yes	Result: 0.6667	dF: 4 Result: 0.3500 Critical value: N/A Outside Similar: N/A	Score: 121 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Cladosporium	107			
	Smuts, Periconia, Myxomycetes	13			
	Stachybotrys	13			
	Total	133			

Location: 20711002-TM03CL

% 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: 19 Result: 7.2347 Critical value: 30.1435 Inside Similar: Yes	Result: 0.5000	dF: 3 Result: -0.6250 Critical value: N/A Outside Similar: N/A	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Smuts, Periconia, Myxomycetes	13			
	Total	13			

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20711002

Date of Sampling: 12-07-2007
 Date of Receipt: 12-07-2007
 Date of Report: 12-11-2007

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20711002-TM04CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 36%	dF: 19 Result: 7.2347 Critical value: 30.1435 Inside Similar: Yes	Result: 0.5000	dF: 3 Result: 0.8750 Critical value: N/A Outside Similar: N/A	Score: 106 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					107
Total					107

Location: 20711002-TM05CL

% 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: 19 Result: 7.2347 Critical value: 30.1435 Inside Similar: Yes	Result: 0.5000	dF: 3 Result: 0.8750 Critical value: N/A Outside Similar: N/A	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Total					53

Location: 20711002-TM06CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 22%	dF: 19 Result: 7.2347 Critical value: 30.1435 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
Cladosporium					53
Nigrospora					13
Total					66

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20711002

Date of Sampling: 12-07-2007
 Date of Receipt: 12-07-2007
 Date of Report: 12-11-2007

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20711002-TM07CL

% 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: 19 Result: 7.2347 Critical value: 30.1435 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
None Detected					N/A

Location: 20711002-TM08CL

% 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: 19 Result: 7.2347 Critical value: 30.1435 Inside Similar: Yes	Result: 0.0000	dF: 4 Result: -0.4000 Critical value: N/A Outside Similar: N/A	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Penicillium/Aspergillus types					53
Total					53

Location: 20711002-TM09CL

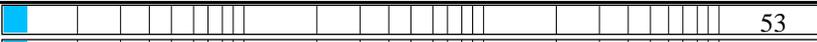
% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 19 Result: 7.2347 Critical value: 30.1435 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
None Detected					N/A

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20711002

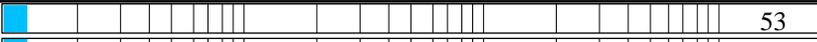
Date of Sampling: 12-07-2007
 Date of Receipt: 12-07-2007
 Date of Report: 12-11-2007

MoldSTAT™: Supplementary Statistical Spore Trap Report

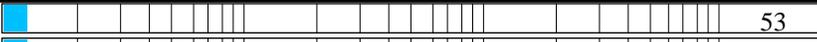
Location: 20711002-TM010CL

% 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: 19 Result: 7.2347 Critical value: 30.1435 Inside Similar: Yes	Result: 0.5000	dF: 3 Result: 0.8750 Critical value: N/A Outside Similar: N/A	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Total					53

Location: 20711002-TM011CL

% 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: 19 Result: 7.2347 Critical value: 30.1435 Inside Similar: Yes	Result: 0.5000	dF: 3 Result: 0.8750 Critical value: N/A Outside Similar: N/A	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Total					53

Location: 20711002-TM012CL

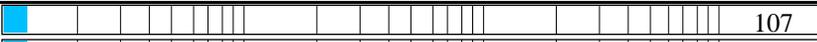
% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 18%	dF: 19 Result: 7.2347 Critical value: 30.1435 Inside Similar: Yes	Result: 0.5000	dF: 3 Result: 0.8750 Critical value: N/A Outside Similar: N/A	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Total					53

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20711002

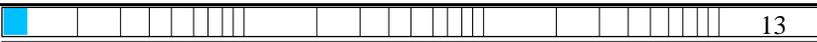
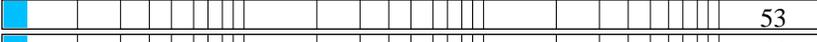
Date of Sampling: 12-07-2007
 Date of Receipt: 12-07-2007
 Date of Report: 12-11-2007

MoldSTAT™: Supplementary Statistical Spore Trap Report

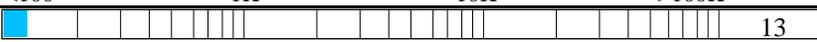
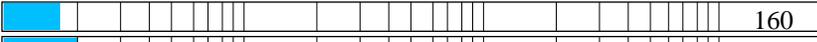
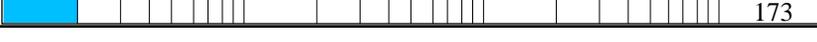
Location: 20711002-TM013CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 40%	dF: 19 Result: 7.2347 Critical value: 30.1435 Inside Similar: Yes	Result: 0.4000	dF: 4 Result: 0.3500 Critical value: N/A Outside Similar: N/A	Score: 106 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					107
Other brown					13
Total					120

Location: 20711002-TM014CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 22%	dF: 19 Result: 7.2347 Critical value: 30.1435 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
Alternaria					13
Cladosporium					53
Total					66

Location: 20711002-TM015CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 59%	dF: 19 Result: 7.2347 Critical value: 30.1435 Inside Similar: Yes	Result: 0.4000	dF: 4 Result: 0.3500 Critical value: N/A Outside Similar: N/A	Score: 109 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Cladosporium					160
Total					173

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20711002

Date of Sampling: 12-07-2007
 Date of Receipt: 12-07-2007
 Date of Report: 12-11-2007

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20711002-TM016CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 36%	dF: 19 Result: 7.2347 Critical value: 30.1435 Inside Similar: Yes	Result: 0.4000	dF: 4 Result: 0.1000 Critical value: N/A Outside Similar: N/A	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Penicillium/Aspergillus types					53
Total					106

Location: 20711002-TM017CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 59%	dF: 19 Result: 7.2347 Critical value: 30.1435 Inside Similar: Yes	Result: 0.8000	dF: 3 Result: 0.5000 Critical value: N/A Outside Similar: N/A	Score: 109 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					160
Smuts, Periconia, Myxomycetes					13
Total					173

Location: 20711002-TM018CL

% 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: 19 Result: 7.2347 Critical value: 30.1435 Inside Similar: Yes	Result: 0.5000	dF: 3 Result: 0.8750 Critical value: N/A Outside Similar: N/A	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Total					53

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20711002

Date of Sampling: 12-07-2007
 Date of Receipt: 12-07-2007
 Date of Report: 12-11-2007

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20711002-TM019CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 22%	dF: 19 Result: 7.2347 Critical value: 30.1435 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
Cladosporium					53
Other brown					13
Total					66

Location: 20711002-TM020CL

% 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: 19 Result: 7.2347 Critical value: 30.1435 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
None Detected					N/A

Location: 20711002-TM021CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 168%	dF: 19 Result: 7.2347 Critical value: 30.1435 Inside Similar: Yes	Result: 0.8000	dF: 3 Result: 0.5000 Critical value: N/A Outside Similar: N/A	Score: 129 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					480
Smuts, Periconia, Myxomycetes					13
Total					493

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

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20711002

Date of Sampling: 12-07-2007
Date of Receipt: 12-07-2007
Date of Report: 12-11-2007

MoldSTAT™: Supplementary Statistical Spore Trap Report

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

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

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

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20711002

Date of Sampling: 12-07-2007
 Date of Receipt: 12-07-2007
 Date of Report: 12-11-2007

MoldSCORE™: Spore Trap Report

Outdoor Sample: 20711002-TM01OutCL

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					ND	< 13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium	█				4	213
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					ND	< 13
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores††					ND	< 13
Basidiospores††	█				1	53
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes††	█				2	27
Total						293

Location: 20711002-TM02CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					ND	< 13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium	█				2	107
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					ND	< 13
Stachybotrys	█				1	13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores††					ND	< 13
Basidiospores††					ND	< 13
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes††	█				1	13
Total						133

MoldSCORE‡			
100	200	300	Score
█			100
█			100
█			100
█			106
█			100
█			100
█	█		121
█			100
█			100
█			100
█			102
Final MoldSCORE			121

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20711002

Date of Sampling: 12-07-2007
 Date of Receipt: 12-07-2007
 Date of Report: 12-11-2007

MoldSCORE™: Spore Trap Report

Location: 20711002-TM03CL

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

Location: 20711002-TM04CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					2	107				106
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						107				Final MoldSCORE 106

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20711002

Date of Sampling: 12-07-2007
 Date of Receipt: 12-07-2007
 Date of Report: 12-11-2007

MoldSCORE™: Spore Trap Report

Location: 20711002-TM05CL

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

Location: 20711002-TM06CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█	█	█	100
Bipolaris/Drechslera group					ND	< 13	█	█	█	100
Chaetomium					ND	< 13	█	█	█	100
Cladosporium	█				1	53	█	█	█	103
Curvularia					ND	< 13	█	█	█	100
Nigrospora	█				1	13	█	█	█	105
Penicillium/Aspergillus types†					ND	< 13	█	█	█	100
Stachybotrys					ND	< 13	█	█	█	100
Torula					ND	< 13	█	█	█	100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█	█	█	100
Basidiospores††					ND	< 13	█	█	█	100
Rusts					ND	< 13	█	█	█	100
Smuts, Periconia, Myxomycetes††					ND	< 13	█	█	█	100
Total						66	Final MoldSCORE 105			

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20711002

Date of Sampling: 12-07-2007
Date of Receipt: 12-07-2007
Date of Report: 12-11-2007

MoldSCORE™: Spore Trap Report

Location: 20711002-TM07CL

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

Location: 20711002-TM08CL

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20711002

Date of Sampling: 12-07-2007
 Date of Receipt: 12-07-2007
 Date of Report: 12-11-2007

MoldSCORE™: Spore Trap Report

Location: 20711002-TM09CL

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

Location: 20711002-TM010CL

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20711002

Date of Sampling: 12-07-2007
 Date of Receipt: 12-07-2007
 Date of Report: 12-11-2007

MoldSCORE™: Spore Trap Report

Location: 20711002-TM011CL

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

Location: 20711002-TM012CL

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20711002

Date of Sampling: 12-07-2007
 Date of Receipt: 12-07-2007
 Date of Report: 12-11-2007

MoldSCORE™: Spore Trap Report

Location: 20711002-TM013CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium	█				2	107	█			106
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Other brown	█				1	13	█			105
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††					ND	< 13	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						120	Final MoldSCORE 106			

Location: 20711002-TM014CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria	█				1	13	█			105
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium	█				1	53	█			103
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††					ND	< 13	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						66	Final MoldSCORE 105			

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20711002

Date of Sampling: 12-07-2007
Date of Receipt: 12-07-2007
Date of Report: 12-11-2007

MoldSCORE™: Spore Trap Report

Location: 20711002-TM015CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					1	13				
Bipolaris/Drechslera group					ND	< 13				
Chaetomium					ND	< 13				
Cladosporium					3	160				
Curvularia					ND	< 13				
Nigrospora					ND	< 13				
Penicillium/Aspergillus types†					ND	< 13				
Stachybotrys					ND	< 13				
Torula					ND	< 13				
Seldom found growing indoors**										
Ascospores††					ND	< 13				
Basidiospores††					ND	< 13				
Rusts					ND	< 13				
Smuts, Periconia, Myxomycetes††					ND	< 13				
Total						173	Final MoldSCORE 109			

Location: 20711002-TM016CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				
Bipolaris/Drechslera group					ND	< 13				
Chaetomium					ND	< 13				
Cladosporium					1	53				
Curvularia					ND	< 13				
Nigrospora					ND	< 13				
Penicillium/Aspergillus types†					1	53				
Stachybotrys					ND	< 13				
Torula					ND	< 13				
Seldom found growing indoors**										
Ascospores††					ND	< 13				
Basidiospores††					ND	< 13				
Rusts					ND	< 13				
Smuts, Periconia, Myxomycetes††					ND	< 13				
Total						106	Final MoldSCORE 108			

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20711002

Date of Sampling: 12-07-2007
 Date of Receipt: 12-07-2007
 Date of Report: 12-11-2007

MoldSCORE™: Spore Trap Report

Location: 20711002-TM017CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█	█	█	100
Bipolaris/Drechslera group					ND	< 13	█	█	█	100
Chaetomium					ND	< 13	█	█	█	100
Cladosporium	█				3	160	█	█	█	109
Curvularia					ND	< 13	█	█	█	100
Nigrospora					ND	< 13	█	█	█	100
Penicillium/Aspergillus types†					ND	< 13	█	█	█	100
Stachybotrys					ND	< 13	█	█	█	100
Torula					ND	< 13	█	█	█	100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█	█	█	100
Basidiospores††					ND	< 13	█	█	█	100
Rusts					ND	< 13	█	█	█	100
Smuts, Periconia, Myxomycetes††	█				1	13	█	█	█	102
Total						173	Final MoldSCORE 109			

Location: 20711002-TM018CL

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20711002

Date of Sampling: 12-07-2007
 Date of Receipt: 12-07-2007
 Date of Report: 12-11-2007

MoldSCORE™: Spore Trap Report

Location: 20711002-TM019CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				103
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Other brown					1	13				105
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						66				Final MoldSCORE 105

Location: 20711002-TM020CL

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20711002

Date of Sampling: 12-07-2007
 Date of Receipt: 12-07-2007
 Date of Report: 12-11-2007

MoldSCORE™: Spore Trap Report

Location: 20711002-TM021CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium	█	█			9	480	█	█		129
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††					ND	< 13	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††	█				1	13	█			102
Total						493	Final MoldSCORE 129			

*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.

††Most of these spore types are not seen with culturable methods (Anderson sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores.

‡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.



EMLab P&K

Report for:

Mr. Wes Frey
Hygiene Technologies International, Inc.: Northern California
3127 Bowen Island Street
West Sacramento, CA 95691

Regarding: Project: 20711002
 EML ID: 367487

Approved by:

Lab Manager
Dr. Kamashwaran Ramanathan

Dates of Analysis:
Direct microscopic exam (Qualitative): 12-13-2007
Spore trap analysis: 12-13-2007

Project SOPs: Direct microscopic exam (Qualitative) (I100006), Spore trap analysis (I100000)

This coversheet is included with your report in order to comply with AIHA and ISO accreditation requirements.

For clarity, we report the number of significant digits as calculated; but, due to the nature of this type of biological data, the number of significant digits that is used for interpretation should generally be one or two. 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 corrections of results is not a standard practice. 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.

Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20711002

Date of Sampling: 12-07-2007
Date of Receipt: 12-07-2007
Date of Report: 12-13-2007

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20711002-TM22OUTCL		20711002-TM23CL		20711002-TM24CL		20711002-TM25OUTCL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1611580-1		1611581-1		1611582-1		1611583-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*	61	3,250					59	3,150
Aureobasidium								
Basidiospores*	141	7,520	1	53			128	6,830
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	15	800	2	107			28	1,490
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown							1	13
Other colorless								
Penicillium/Aspergillus types†	2	107			1	53	3	160
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*	4	53					1	13
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Unknown								
Zygomycetes								
Background debris (1-4+)††	1+		2+		2+		1+	
Hyphal fragments/m3	53		< 13		13		67	
Pollen/m3	< 13		< 13		13		< 13	
Skin cells (1-4+)	None		1+		1+		None	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		11,730		160		53		11,656

Comments:

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.
 † 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 Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.
 ‡ A "Version" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20711002

Date of Sampling: 12-07-2007
Date of Receipt: 12-07-2007
Date of Report: 12-13-2007

MoldRANGE™: Extended Outdoor Comparison**Outdoor Location: 20711002-TM22OUTCL**

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: December				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	-	7	25	210	40	7	27	230	61
Bipolaris/Drechslera group	-	7	13	190	15	7	13	120	14
Chaetomium	-	7	13	130	11	7	13	110	19
Cladosporium	800	27	390	6,900	92	53	640	6,700	98
Curvularia	-	7	20	530	14	7	13	210	7
Nigrospora	-	7	13	170	12	7	13	170	8
Other brown	-	7	13	110	35	7	13	88	38
Penicillium/Aspergillus types	107	27	210	2,600	87	44	210	2,600	89
Stachybotrys	-	7	13	310	3	7	13	340	5
Torula	-	7	13	150	6	7	13	150	13
Seldom found growing indoors**									
Ascospores	3,250	13	110	2,800	66	13	110	1,700	73
Basidiospores	7,520	13	290	12,000	89	13	270	7,100	95
Rusts	-	7	13	200	14	7	13	270	29
Smuts, Periconia, Myxomycetes	53	7	27	360	62	8	40	480	72
TOTAL SPORES/M3	11,730								

† The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 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, 2.5% 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.

‡ The Typical Outdoor Data by Location represents the typical outdoor spore levels for the region indicated for the entire year. As with the Typical Outdoor Data by Date, the four columns represent the frequency of occurrence and the typical low, medium, and high concentration values for the spore type indicated. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

*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.

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.:
Northern California
C/O: Mr. Wes Frey
Re: 20711002

Date of Sampling: 12-07-2007
Date of Receipt: 12-07-2007
Date of Report: 12-13-2007

MoldRANGE™: Extended Outdoor Comparison**Outdoor Location: 20711002-TM25OUTCL**

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: December				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	-	7	25	210	40	7	27	230	61
Bipolaris/Drechslera group	-	7	13	190	15	7	13	120	14
Chaetomium	-	7	13	130	11	7	13	110	19
Cladosporium	1,490	27	390	6,900	92	53	640	6,700	98
Curvularia	-	7	20	530	14	7	13	210	7
Nigrospora	-	7	13	170	12	7	13	170	8
Other brown	13	7	13	110	35	7	13	88	38
Penicillium/Aspergillus types	160	27	210	2,600	87	44	210	2,600	89
Stachybotrys	-	7	13	310	3	7	13	340	5
Torula	-	7	13	150	6	7	13	150	13
Seldom found growing indoors**									
Ascospores	3,150	13	110	2,800	66	13	110	1,700	73
Basidiospores	6,830	13	290	12,000	89	13	270	7,100	95
Rusts	-	7	13	200	14	7	13	270	29
Smuts, Periconia, Myxomycetes	13	7	27	360	62	8	40	480	72
TOTAL SPORES/M3	11,656								

† The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 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, 2.5% 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.

‡ The Typical Outdoor Data by Location represents the typical outdoor spore levels for the region indicated for the entire year. As with the Typical Outdoor Data by Date, the four columns represent the frequency of occurrence and the typical low, medium, and high concentration values for the spore type indicated. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

*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.

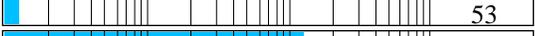
Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis 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.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20711002

Date of Sampling: 12-07-2007
 Date of Receipt: 12-07-2007
 Date of Report: 12-13-2007

MoldSTAT™: Supplementary Statistical Spore Trap Report

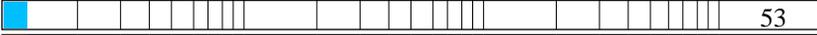
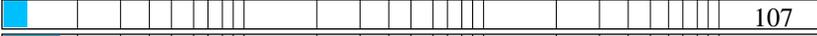
Outdoor Summary: 20711002-TM22OUTCL:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores					13 - 160 - 4,300	76
Basidiospores					13 - 320 - 14,000	93
Cladosporium					52 - 530 - 8,500	95
Penicillium/Aspergillus types					27 - 210 - 2,600	86
Smuts, Periconia, Myxomycetes					7 - 40 - 770	71
Total						

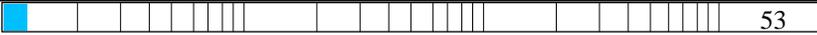
The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example,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

Indoor Samples

Location: 20711002-TM23CL

% 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: 1 Result: 0.3333 Critical value: 3.8415 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.5000 Critical value: 0.8000 Outside Similar: No	Score: 106 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Basidiospores				
	Cladosporium				
	Total				

Location: 20711002-TM24CL

% 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: 1 Result: 0.3333 Critical value: 3.8415 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.0000 Critical value: 0.8000 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Penicillium/Aspergillus types				
	Total				

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20711002

Date of Sampling: 12-07-2007
Date of Receipt: 12-07-2007
Date of Report: 12-13-2007

MoldSTAT™: Supplementary Statistical Spore Trap Report

* 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.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20711002

Date of Sampling: 12-07-2007
 Date of Receipt: 12-07-2007
 Date of Report: 12-13-2007

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 20711002-TM25OUTCL:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores					13 - 160 - 4,300	76
Basidiospores					13 - 320 - 14,000	93
Cladosporium					52 - 530 - 8,500	95
Other brown					7 - 13 - 93	36
Penicillium/Aspergillus types					27 - 210 - 2,600	86
Smuts, Periconia, Myxomycetes					7 - 40 - 770	71
Total						

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

Indoor Samples

Location: 20711002-TM23CL

% 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: 1 Result: 0.3333 Critical value: 3.8415 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.6143 Critical value: 0.7714 Outside Similar: No	Score: 106 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Basidiospores				
	Cladosporium				
	Total				

Location: 20711002-TM24CL

% 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: 1 Result: 0.3333 Critical value: 3.8415 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.2143 Critical value: 0.7714 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Penicillium/Aspergillus types				
	Total				

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20711002

Date of Sampling: 12-07-2007
Date of Receipt: 12-07-2007
Date of Report: 12-13-2007

MoldSTAT™: Supplementary Statistical Spore Trap Report

* 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.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20711002

Date of Sampling: 12-07-2007
 Date of Receipt: 12-07-2007
 Date of Report: 12-13-2007

MoldSCORE™: Spore Trap Report

Location: 20711002-TM24CL

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

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

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

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

††Most of these spore types are not seen with culturable methods (Anderson sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores.

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20711002

Date of Sampling: 12-07-2007
 Date of Receipt: 12-07-2007
 Date of Report: 12-13-2007

MoldSCORE™: Spore Trap Report

Location: 20711002-TM24CL

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

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

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

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

††Most of these spore types are not seen with culturable methods (Anderson sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores.

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

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20711002

Date of Sampling: 12-07-2007
Date of Receipt: 12-07-2007
Date of Report: 12-13-2007

DIRECT MICROSCOPIC EXAMINATION REPORT

(Wet Mount)

Background Debris and/or Description	Miscellaneous Spores Present*	MOLD GROWTH: Molds seen with underlying mycelial and/or sporulating structures†	Other Comments††	General Impression
Lab ID-Version‡: 1611579-1: Tape sample 20711002-TL201CL				
Moderate	Few	None	None	Normal trapping

‡ A "Version" greater than 1 indicates amended data.



EMLab P&K

Report for:

Mr. Wes Frey
Hygiene Technologies International, Inc.: Northern California
3127 Bowen Island Street
West Sacramento, CA 95691

Regarding: Project: 20711002-20712001
EML ID: 368360

Approved by:

Lab Manager
Magzoub Ismail

Dates of Analysis:
Direct microscopic exam (Qualitative): 12-13-2007
Spore trap analysis: 12-13-2007

Project SOPs: Direct microscopic exam (Qualitative) (I100006), Spore trap analysis (I100000)

This coversheet is included with your report in order to comply with AIHA and ISO accreditation requirements.

For clarity, we report the number of significant digits as calculated; but, due to the nature of this type of biological data, the number of significant digits that is used for interpretation should generally be one or two. 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 corrections of results is not a standard practice. 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.

Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20711002-20712001

Date of Sampling: 12-10-2007
Date of Receipt: 12-11-2007
Date of Report: 12-13-2007

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20711002-TM26CCCL		20711002-TM27CCCL		20711002-TM28CCCL		20711002-TM29CCCL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1613192-1		1613193-1		1613194-1		1613195-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria			1	13				
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*								
Bipolaris/Drechslera group								
Botrytis								
Cladosporium	2	107	1	53	1	13	3	160
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Oidium					1	13		
Other brown					1	13		
Penicillium/Aspergillus types†	1	53	1	13	1	53	5	267
Pithomyces								
Rusts*					2	27		
Smuts*, Periconia, Myxomycetes*							1	13
Stachybotrys								
Stemphylium								
Torula					1	13		
Trichocladium								
Ulocladium								
Unknown								
Background debris (1-4+)††	2+		2+		2+		2+	
Hyphal fragments/m3	13		< 13		13		27	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	1+		< 1+		2+		2+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		160		79		132		440

Comments:

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

† 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 Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.

‡ A "Version" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20711002-20712001

Date of Sampling: 12-10-2007
Date of Receipt: 12-11-2007
Date of Report: 12-13-2007

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20711002-TM30CCCL		20711002-TM31CCCL		20711002-TM32CCCL		20711002-TM33CCCL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1613196-1		1613197-1		1613198-1		1613199-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria			2	40	2	27		
Arthrinium								
Ascospores*	1	13						
Aureobasidium								
Basidiospores*	1	13			1	13		
Bipolaris/Drechslera group								
Botrytis								
Cladosporium	3	160	6	107	1	53	2	27
Curvularia								
Epicoccum	1	13						
Fusarium								
Myrothecium								
Nigrospora	1	13						
Oidium								
Other brown			2	40				
Penicillium/Aspergillus types†			4	67			1	13
Pithomyces								
Rusts*	1	13						
Smuts*, Periconia, Myxomycetes*								
Stachybotrys								
Stemphylium								
Torula							1	13
Trichocladium								
Ulocladium								
Unknown								
Background debris (1-4+)††	3+		2+		2+		2+	
Hyphal fragments/m3	53		< 13		< 13		27	
Pollen/m3	13		< 13		27		< 13	
Skin cells (1-4+)	2+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		225		254		93		53

Comments:

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.
 † 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 Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.
 ‡ A "Version" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20711002-20712001

Date of Sampling: 12-10-2007
Date of Receipt: 12-11-2007
Date of Report: 12-13-2007

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20712001-TM01WFOut		20712001-TM02WF		20712001-TM03WF		20712001-TM04WF	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1613200-1		1613201-1		1613202-1		1613203-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria			1	13			1	13
Arthrinium								
Ascospores*	2	67						
Aureobasidium								
Basidiospores*	4	133	1	53				
Bipolaris/Drechslera group								
Botrytis								
Cladosporium	8	427	3	160	1	53	2	107
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Oidium								
Other brown			1	13	1	13		
Penicillium/Aspergillus types†	6	320	1	53	2	107	2	107
Pithomyces								
Rusts*	1	13					1	13
Smuts*, Periconia, Myxomycetes*	3	40	2	27	2	27		
Stachybotrys								
Stemphylium								
Torula	1	13						
Trichocladium								
Ulocladium								
Unknown								
Background debris (1-4+)††	2+		2+		2+		3+	
Hyphal fragments/m3	< 13		40		13		53	
Pollen/m3	13		13		< 13		< 13	
Skin cells (1-4+)	< 1+		< 1+		1+		< 1+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		1,013		319		200		240

Comments:

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.
 † 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 Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.
 ‡ A "Version" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20711002-20712001

Date of Sampling: 12-10-2007
Date of Receipt: 12-11-2007
Date of Report: 12-13-2007

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20712001-TM05WF		20712001-TM06WF		20712001-TM07WF		20712001-TM08WFOut	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1613204-1		1613205-1		1613206-1		1613207-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria					1	13	1	13
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*	1	13			1	13	9	320
Bipolaris/Drechslera group								
Botrytis								
Cladosporium	1	53			3	160	14	747
Curvularia								
Epicoccum							1	13
Fusarium								
Myrothecium								
Nigrospora								
Oidium								
Other brown								
Penicillium/Aspergillus types†	3	160	2	107	2	107	2	107
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*	2	27					3	40
Stachybotrys								
Stemphylium								
Torula								
Trichocladium	2	27						
Ulocladium								
Unknown								
Background debris (1-4+)††	2+		2+		2+		2+	
Hyphal fragments/m3	27		27		67		13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+		< 1+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		280		107		293		1,240

Comments:

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.
† 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 Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.
‡ A "Version" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20711002-20712001

Date of Sampling: 12-10-2007
Date of Receipt: 12-11-2007
Date of Report: 12-13-2007

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20712001-TM09WFWC		20712001-TM10WFWC		20712001-TM11WFWC	
Comments (see below)	A		None		None	
Lab ID-Version‡:	1613208-1		1613209-1		1613210-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria			1	13		
Arthrinium						
Ascospores*						
Aureobasidium						
Basidiospores*						
Bipolaris/Drechslera group						
Botrytis						
Cladosporium						
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Oidium						
Other brown						
Penicillium/Aspergillus types†	25	933			1	53
Pithomyces						
Rusts*	1	13				
Smuts*, Periconia, Myxomycetes*	3	40				
Stachybotrys						
Stemphylium						
Torula						
Trichocladium						
Ulocladium						
Unknown						
Zygomycetes						
Background debris (1-4+)††	4+		4+		3+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		< 1+		< 1+	
Sample volume (liters)	75		75		75	
TOTAL SPORE/m3		986		13		53

Comments: A) 10 of the raw count *Penicillium/Aspergillus* type spores were present as a single clump.

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

† 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 Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.

‡ A "Version" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20711002-20712001

Date of Sampling: 12-10-2007
 Date of Receipt: 12-11-2007
 Date of Report: 12-13-2007

DIRECT MICROSCOPIC EXAMINATION REPORT
 (Wet Mount)

Background Debris and/or Description	Miscellaneous Spores Present*	MOLD GROWTH: Molds seen with underlying mycelial and/or sporulating structures†	Other Comments††	General Impression
Lab ID-Version‡: 1613161-1: Swab sample 20712001-S01WF				
Very Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 1613162-1: Swab sample 20712001-S02WF				
Very Heavy	Few	None	None	Normal trapping
Lab ID-Version: 1613163-1: Swab sample 20712001-S03WF				
Very Heavy	Few	None	None	Normal trapping
Lab ID-Version: 1613164-1: Swab sample 20712001-S04WF				
Very Heavy	Few	None	None	Normal trapping
Lab ID-Version: 1613165-1: Swab sample 20711002-S101CL				
Very Heavy	Very few	2+ <i>Alternaria</i> species (spores, hyphae)	None	Mold growth
Lab ID-Version: 1613166-1: Swab sample 20711002-S102CL				
Very Heavy	Very few	1+ <i>Alternaria</i> species (spores, hyphae)	None	Mold growth
Lab ID-Version: 1613167-1: Swab sample 20711002-S103CL				
Very Heavy	Very few	1+ <i>Alternaria</i> species (spores, hyphae)	None	Mold growth
Lab ID-Version: 1613168-1: Swab sample 20711002-S104CL				
Very Heavy	Very few	1+ <i>Alternaria</i> species (spores, hyphae)	None	Mold growth
Lab ID-Version: 1613169-1: Swab sample 20711002-S105CL				
Very Heavy	Very few	< 1+ brown hyphae with no associated spores, ID unknown	None	Minimal mold growth
Lab ID-Version: 1613170-1: Swab sample 20711002-S106CL				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 1613171-1: Swab sample 20711002-S107CL				
Heavy	Very few	None	None	Normal trapping

Background Debris and/or Description	Miscellaneous Spores Present*	MOLD GROWTH: Molds seen with underlying mycelial and/or sporulating structures†	Other Comments††	General Impression
Lab ID-Version‡: 1613172-1: Swab sample 20711002-S108CL				
Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 1613173-1: Tape sample 20711002-TL202CL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1613174-1: Tape sample 20711002-TL203CL				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 1613175-1: Tape sample 20711002-TL204CL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1613176-1: Tape sample 20711002-TL205CL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1613177-1: Tape sample 20711002-TL206CL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1613178-1: Tape sample 20711002-TL207CL				
Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 1613179-1: Tape sample 20711002-TL208CL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1613180-1: Tape sample 20711002-TL209CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1613181-1: Tape sample 20711002-TL210CL				
Scant	None	None	None	No mold spores detected
Lab ID-Version: 1613182-1: Tape sample 20711002-TL211CL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1613183-1: Tape sample 20711002-TL212CL				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 1613184-1: Tape sample 20711002-TL213CL				
Scant	None	None	None	No mold spores detected

Background Debris and/or Description	Miscellaneous Spores Present*	MOLD GROWTH: Molds seen with underlying mycelial and/or sporulating structures†	Other Comments††	General Impression
Lab ID-Version‡: 1613185-1: Tape sample 20711002-TL214CL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1613186-1: Tape sample 20711002-TL215CL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1613187-1: Tape sample 20711002-TL216CL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1613188-1: Tape sample 20711002-TL217CL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1613189-1: Tape sample 20711002-TL218CL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1613190-1: Tape sample 20711002-TL219CL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1613191-1: Tape sample 20711002-TL220CL				
Light	Very few	None	None	Normal trapping

‡ A "Version" greater than 1 indicates amended data.



EMLab P&K

Report for:

Mr. Wes Frey
Hygiene Technologies International, Inc.: Northern California
3127 Bowen Island Street
West Sacramento, CA 95691

Regarding: Project: 20711002
 EML ID: 367305

Approved by:

Lab Manager
Dr. Kamashwaran Ramanathan

Dates of Analysis:
Culturable air fungi (Incl. Asp spp.): 12-14-2007
Spore trap analysis: 12-11-2007

Project SOPs: Culturable air fungi (Incl. Asp spp.) (I100002), Spore trap analysis (I100000)

This coversheet is included with your report in order to comply with AIHA and ISO accreditation requirements.

For clarity, we report the number of significant digits as calculated; but, due to the nature of this type of biological data, the number of significant digits that is used for interpretation should generally be one or two. 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 corrections of results is not a standard practice. 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.

Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20711002

Date of Sampling: 12-07-2007
Date of Receipt: 12-07-2007
Date of Report: 12-14-2007

CULTURABLE AIR FUNGI REPORT

Location:	20711002-VM01OutCL		20711002-VM02CL		20711002-VM03CL		20711002-VM04CL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1608487-1		1608488-1		1608489-1		1608490-1	
	raw ct.	cfu*/m3	raw ct.	cfu*/m3	raw ct.	cfu*/m3	raw ct.	cfu*/m3
Acremonium								
Alternaria								
Aspergillus flavus								
Aspergillus fumigatus								
Aspergillus nidulans								
Aspergillus niger								
Aspergillus ochraceus								
Aspergillus versicolor								
Aureobasidium								
Basidiomycetes								
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	8	141	1	18	1	18		
Curvularia								
Epicoccum								
Fusarium								
Non-sporulating fungi	1	18						
Paecilomyces								
Penicillium	5	88	2	35	2	35		
Phoma								
Rhizopus								
Stachybotrys chartarum								
Ulocladium								
Yeasts			2	35				
Positive Hole	400		400		400		400	
Sample volume (liters)	56.6		56.6		56.6		56.6	
TOTAL CFU*/M3		247		88		53		< 18

* cfu = colony forming units Positive hole correction chart used for all calculations

Comments:

Note: Interpretation is left to the company and/or persons who conducted the field work. Variation is an inherent part of biological sampling. The presence or absence of a few genera in small numbers should not be considered abnormal.
 NORMAL SPORE LEVELS: Indoor spore levels usually average 30 to 80% of the outdoor spore level at the time of sampling, with the same general distribution of spore types. Filtered air, air-conditioned air, or air remote from outside sources may average 5 to 15% of the outside air at the time of sampling. (These percentages are guidelines, only. A major factor is the accessibility of outdoor air. A residence with open doors and windows and heavy foot traffic may average 95% of the outdoor level while high rise office buildings with little air exchange may average 2%. Dusty interiors may exceed 100% of the outdoors to some degree, but will still mirror the outdoor distribution of spore types.)
 PROBLEM INTERIORS: A substantial increase of one or two spore types which are inconsistent with and non-reflective of the outside distribution of spore types is usually indicative of an indoor reservoir of mold growth.
 The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.
 ‡ A "Version" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20711002

Date of Sampling: 12-07-2007
 Date of Receipt: 12-07-2007
 Date of Report: 12-14-2007

CULTURABLE AIR FUNGI REPORT

Location:	20711002-VM05CL		20711002-VM06CL		20711002-VM07CL		20711002-VM08CL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1608491-1		1608492-1		1608493-1		1608494-1	
	raw ct.	cfu*/m3						
Acremonium								
Alternaria								
Aspergillus flavus								
Aspergillus fumigatus								
Aspergillus nidulans								
Aspergillus niger			1	18				
Aspergillus ochraceus								
Aspergillus versicolor								
Aureobasidium								
Basidiomycetes								
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium					1	18	1	18
Curvularia								
Epicoccum								
Fusarium								
Non-sporulating fungi								
Paecilomyces								
Penicillium	2	35	1	18	2	35	1	18
Phoma								
Rhizopus								
Stachybotrys chartarum								
Ulocladium								
Yeasts					2	35		
Positive Hole	400		400		400		400	
Sample volume (liters)	56.6		56.6		56.6		56.6	
TOTAL CFU*/M3		35		36		88		36

* cfu = colony forming units Positive hole correction chart used for all calculations

Comments:

Note: Interpretation is left to the company and/or persons who conducted the field work. Variation is an inherent part of biological sampling. The presence or absence of a few genera in small numbers should not be considered abnormal.
 NORMAL SPORE LEVELS: Indoor spore levels usually average 30 to 80% of the outdoor spore level at the time of sampling, with the same general distribution of spore types. Filtered air, air-conditioned air, or air remote from outside sources may average 5 to 15% of the outside air at the time of sampling. (These percentages are guidelines, only. A major factor is the accessibility of outdoor air. A residence with open doors and windows and heavy foot traffic may average 95% of the outdoor level while high rise office buildings with little air exchange may average 2%. Dusty interiors may exceed 100% of the outdoors to some degree, but will still mirror the outdoor distribution of spore types.)
 PROBLEM INTERIORS: A substantial increase of one or two spore types which are inconsistent with and non-reflective of the outside distribution of spore types is usually indicative of an indoor reservoir of mold growth.
 The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.
 ‡ A "Version" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20711002

Date of Sampling: 12-07-2007
Date of Receipt: 12-07-2007
Date of Report: 12-14-2007

CULTURABLE AIR FUNGI REPORT

Location:	20711002-VM09CL		20711002-VM010CL		20711002-VM011CL		20711002-VM012CL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1608495-1		1608496-1		1608497-1		1608498-1	
	raw ct.	cfu*/m3	raw ct.	cfu*/m3	raw ct.	cfu*/m3	raw ct.	cfu*/m3
Acremonium								
Alternaria								
Aspergillus flavus								
Aspergillus fumigatus					1	18		
Aspergillus nidulans								
Aspergillus niger							2	35
Aspergillus ochraceus								
Aspergillus versicolor							1	18
Aureobasidium								
Basidiomycetes								
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	2	35	1	18	1	18	6	106
Curvularia								
Epicoccum								
Fusarium								
Non-sporulating fungi							2	35
Paecilomyces								
Penicillium			1	18	1	18	3	53
Phoma								
Rhizopus								
Stachybotrys chartarum								
Ulocladium								
Yeasts	1	18						
Positive Hole	400		400		400		400	
Sample volume (liters)	56.6		56.6		56.6		56.6	
TOTAL CFU*/M3		53		36		54		247

* cfu = colony forming units Positive hole correction chart used for all calculations

Comments:

Note: Interpretation is left to the company and/or persons who conducted the field work. Variation is an inherent part of biological sampling. The presence or absence of a few genera in small numbers should not be considered abnormal.
 NORMAL SPORE LEVELS: Indoor spore levels usually average 30 to 80% of the outdoor spore level at the time of sampling, with the same general distribution of spore types. Filtered air, air-conditioned air, or air remote from outside sources may average 5 to 15% of the outside air at the time of sampling. (These percentages are guidelines, only. A major factor is the accessibility of outdoor air. A residence with open doors and windows and heavy foot traffic may average 95% of the outdoor level while high rise office buildings with little air exchange may average 2%. Dusty interiors may exceed 100% of the outdoors to some degree, but will still mirror the outdoor distribution of spore types.)
 PROBLEM INTERIORS: A substantial increase of one or two spore types which are inconsistent with and non-reflective of the outside distribution of spore types is usually indicative of an indoor reservoir of mold growth.
 The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.
 ‡ A "Version" greater than 1 indicates amended data.



EMLab P&K

Report for:

Mr. Wes Frey
Hygiene Technologies International, Inc.: Northern California
3127 Bowen Island Street
West Sacramento, CA 95691

Regarding: Project: 20711002
 EML ID: 367487

Approved by:

Lab Manager
Dr. Kamashwaran Ramanathan

Dates of Analysis:
Culturable air fungi (Incl. Asp spp.): 12-13-2007
Direct microscopic exam (Qualitative): 12-13-2007
Spore trap analysis: 12-13-2007

Project SOPs: Culturable air fungi (Incl. Asp spp.) (I100002), Direct microscopic exam (Qualitative) (I100006), Spore trap analysis (I100000)

This coversheet is included with your report in order to comply with AIHA and ISO accreditation requirements.

For clarity, we report the number of significant digits as calculated; but, due to the nature of this type of biological data, the number of significant digits that is used for interpretation should generally be one or two. 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 corrections of results is not a standard practice. 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.

Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20711002

Date of Sampling: 12-07-2007
Date of Receipt: 12-07-2007
Date of Report: 12-13-2007

CULTURABLE AIR FUNGI REPORT

Location:	20711002-VM13OUTCL		20711002-VM14CL		20711002-VM15CL		20711002-VM16OUTCL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1611575-1		1611576-1		1611577-1		1611578-1	
	raw ct.	cfu*/m3	raw ct.	cfu*/m3	raw ct.	cfu*/m3	raw ct.	cfu*/m3
Acremonium								
Alternaria			1	18				
Aspergillus flavus								
Aspergillus fumigatus								
Aspergillus nidulans								
Aspergillus niger								
Aspergillus ochraceus								
Aspergillus versicolor								
Aureobasidium								
Basidiomycetes								
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	45	848					50	936
Curvularia								
Epicoccum	1	18					2	35
Fusarium								
Non-sporulating fungi	3	53			1	18	4	71
Paecilomyces								
Penicillium	2	35					1	18
Phoma								
Rhizopus								
Stachybotrys chartarum								
Ulocladium								
Yeasts	3	53					3	53
Positive Hole	400		400		400		400	
Sample volume (liters)	56.6		56.6		56.6		56.6	
TOTAL CFU*/M3		1,007		18		18		1,113

* cfu = colony forming units Positive hole correction chart used for all calculations

Comments:

Note: Interpretation is left to the company and/or persons who conducted the field work. Variation is an inherent part of biological sampling. The presence or absence of a few genera in small numbers should not be considered abnormal.
 NORMAL SPORE LEVELS: Indoor spore levels usually average 30 to 80% of the outdoor spore level at the time of sampling, with the same general distribution of spore types. Filtered air, air-conditioned air, or air remote from outside sources may average 5 to 15% of the outside air at the time of sampling. (These percentages are guidelines, only. A major factor is the accessibility of outdoor air. A residence with open doors and windows and heavy foot traffic may average 95% of the outdoor level while high rise office buildings with little air exchange may average 2%. Dusty interiors may exceed 100% of the outdoors to some degree, but will still mirror the outdoor distribution of spore types.)
 PROBLEM INTERIORS: A substantial increase of one or two spore types which are inconsistent with and non-reflective of the outside distribution of spore types is usually indicative of an indoor reservoir of mold growth.
 The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.
 ‡ A "Version" greater than 1 indicates amended data.



EMLab P&K

Report for:

Mr. Wes Frey
Hygiene Technologies International, Inc.: Northern California
3127 Bowen Island Street
West Sacramento, CA 95691

Regarding: Project: 20711002-20712001
 EML ID: 368360

Approved by:

Lab Manager
Magzoub Ismail

Dates of Analysis:
Direct microscopic exam (Qualitative): 12-13-2007
Spore trap analysis: 12-13-2007

Project SOPs: Direct microscopic exam (Qualitative) (I100006), Spore trap analysis (I100000)

This coversheet is included with your report in order to comply with AIHA and ISO accreditation requirements.

For clarity, we report the number of significant digits as calculated; but, due to the nature of this type of biological data, the number of significant digits that is used for interpretation should generally be one or two. 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 corrections of results is not a standard practice. 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.

Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20711002-20712001

Date of Sampling: 12-10-2007
 Date of Receipt: 12-11-2007
 Date of Report: 12-13-2007

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20711002-TM26CCCL		20711002-TM27CCCL		20711002-TM28CCCL		20711002-TM29CCCL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1613192-1		1613193-1		1613194-1		1613195-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria			1	13				
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*								
Bipolaris/Drechslera group								
Botrytis								
Cladosporium	2	107	1	53	1	13	3	160
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Oidium					1	13		
Other brown					1	13		
Penicillium/Aspergillus types†	1	53	1	13	1	53	5	267
Pithomyces								
Rusts*					2	27		
Smuts*, Periconia, Myxomycetes*							1	13
Stachybotrys								
Stemphylium								
Torula					1	13		
Trichocladium								
Ulocladium								
Unknown								
Background debris (1-4+)††	2+		2+		2+		2+	
Hyphal fragments/m3	13		< 13		13		27	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	1+		< 1+		2+		2+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		160		79		132		440

Comments:

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

† 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 Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.

‡ A "Version" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20711002-20712001

Date of Sampling: 12-10-2007
Date of Receipt: 12-11-2007
Date of Report: 12-13-2007

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20711002-TM30CCCL		20711002-TM31CCCL		20711002-TM32CCCL		20711002-TM33CCCL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1613196-1		1613197-1		1613198-1		1613199-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria			2	40	2	27		
Arthrinium								
Ascospores*	1	13						
Aureobasidium								
Basidiospores*	1	13			1	13		
Bipolaris/Drechslera group								
Botrytis								
Cladosporium	3	160	6	107	1	53	2	27
Curvularia								
Epicoccum	1	13						
Fusarium								
Myrothecium								
Nigrospora	1	13						
Oidium								
Other brown			2	40				
Penicillium/Aspergillus types†			4	67			1	13
Pithomyces								
Rusts*	1	13						
Smuts*, Periconia, Myxomycetes*								
Stachybotrys								
Stemphylium								
Torula							1	13
Trichocladium								
Ulocladium								
Unknown								
Background debris (1-4+)††	3+		2+		2+		2+	
Hyphal fragments/m3	53		< 13		< 13		27	
Pollen/m3	13		< 13		27		< 13	
Skin cells (1-4+)	2+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		225		254		93		53

Comments:

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.
 † 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 Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.
 ‡ A "Version" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20711002-20712001

Date of Sampling: 12-10-2007
Date of Receipt: 12-11-2007
Date of Report: 12-13-2007

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20712001-TM01WFOut		20712001-TM02WF		20712001-TM03WF		20712001-TM04WF	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1613200-1		1613201-1		1613202-1		1613203-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria			1	13			1	13
Arthrinium								
Ascospores*	2	67						
Aureobasidium								
Basidiospores*	4	133	1	53				
Bipolaris/Drechslera group								
Botrytis								
Cladosporium	8	427	3	160	1	53	2	107
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Oidium								
Other brown			1	13	1	13		
Penicillium/Aspergillus types†	6	320	1	53	2	107	2	107
Pithomyces								
Rusts*	1	13					1	13
Smuts*, Periconia, Myxomycetes*	3	40	2	27	2	27		
Stachybotrys								
Stemphylium								
Torula	1	13						
Trichocladium								
Ulocladium								
Unknown								
Background debris (1-4+)††	2+		2+		2+		3+	
Hyphal fragments/m3	< 13		40		13		53	
Pollen/m3	13		13		< 13		< 13	
Skin cells (1-4+)	< 1+		< 1+		1+		< 1+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		1,013		319		200		240

Comments:

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

† 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 Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.

‡ A "Version" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20711002-20712001

Date of Sampling: 12-10-2007
 Date of Receipt: 12-11-2007
 Date of Report: 12-13-2007

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20712001-TM05WF		20712001-TM06WF		20712001-TM07WF		20712001-TM08WFOut	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1613204-1		1613205-1		1613206-1		1613207-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria					1	13	1	13
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*	1	13			1	13	9	320
Bipolaris/Drechslera group								
Botrytis								
Cladosporium	1	53			3	160	14	747
Curvularia								
Epicoccum							1	13
Fusarium								
Myrothecium								
Nigrospora								
Oidium								
Other brown								
Penicillium/Aspergillus types†	3	160	2	107	2	107	2	107
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*	2	27					3	40
Stachybotrys								
Stemphylium								
Torula								
Trichocladium	2	27						
Ulocladium								
Unknown								
Background debris (1-4+)††	2+		2+		2+		2+	
Hyphal fragments/m3	27		27		67		13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+		< 1+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		280		107		293		1,240

Comments:

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.
 † 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 Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.
 ‡ A "Version" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20711002-20712001

Date of Sampling: 12-10-2007
Date of Receipt: 12-11-2007
Date of Report: 12-13-2007

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20712001-TM09WFWC		20712001-TM10WFWC		20712001-TM11WFWC	
Comments (see below)	A		None		None	
Lab ID-Version‡:	1613208-1		1613209-1		1613210-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria			1	13		
Arthrinium						
Ascospores*						
Aureobasidium						
Basidiospores*						
Bipolaris/Drechslera group						
Botrytis						
Cladosporium						
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Oidium						
Other brown						
Penicillium/Aspergillus types†	25	933			1	53
Pithomyces						
Rusts*	1	13				
Smuts*, Periconia, Myxomycetes*	3	40				
Stachybotrys						
Stemphylium						
Torula						
Trichocladium						
Ulocladium						
Unknown						
Zygomycetes						
Background debris (1-4+)††	4+		4+		3+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		< 1+		< 1+	
Sample volume (liters)	75		75		75	
TOTAL SPORE/m3		986		13		53

Comments: A) 10 of the raw count *Penicillium/Aspergillus* type spores were present as a single clump.

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

† 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 Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.

‡ A "Version" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20711002-20712001

Date of Sampling: 12-10-2007
 Date of Receipt: 12-11-2007
 Date of Report: 12-13-2007

DIRECT MICROSCOPIC EXAMINATION REPORT
 (Wet Mount)

Background Debris and/or Description	Miscellaneous Spores Present*	MOLD GROWTH: Molds seen with underlying mycelial and/or sporulating structures†	Other Comments††	General Impression
Lab ID-Version‡: 1613161-1: Swab sample 20712001-S01WF				
Very Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 1613162-1: Swab sample 20712001-S02WF				
Very Heavy	Few	None	None	Normal trapping
Lab ID-Version: 1613163-1: Swab sample 20712001-S03WF				
Very Heavy	Few	None	None	Normal trapping
Lab ID-Version: 1613164-1: Swab sample 20712001-S04WF				
Very Heavy	Few	None	None	Normal trapping
Lab ID-Version: 1613165-1: Swab sample 20711002-S101CL				
Very Heavy	Very few	2+ <i>Alternaria</i> species (spores, hyphae)	None	Mold growth
Lab ID-Version: 1613166-1: Swab sample 20711002-S102CL				
Very Heavy	Very few	1+ <i>Alternaria</i> species (spores, hyphae)	None	Mold growth
Lab ID-Version: 1613167-1: Swab sample 20711002-S103CL				
Very Heavy	Very few	1+ <i>Alternaria</i> species (spores, hyphae)	None	Mold growth
Lab ID-Version: 1613168-1: Swab sample 20711002-S104CL				
Very Heavy	Very few	1+ <i>Alternaria</i> species (spores, hyphae)	None	Mold growth
Lab ID-Version: 1613169-1: Swab sample 20711002-S105CL				
Very Heavy	Very few	< 1+ brown hyphae with no associated spores, ID unknown	None	Minimal mold growth
Lab ID-Version: 1613170-1: Swab sample 20711002-S106CL				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 1613171-1: Swab sample 20711002-S107CL				
Heavy	Very few	None	None	Normal trapping

Background Debris and/or Description	Miscellaneous Spores Present*	MOLD GROWTH: Molds seen with underlying mycelial and/or sporulating structures†	Other Comments††	General Impression
Lab ID-Version‡: 1613172-1: Swab sample 20711002-S108CL				
Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 1613173-1: Tape sample 20711002-TL202CL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1613174-1: Tape sample 20711002-TL203CL				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 1613175-1: Tape sample 20711002-TL204CL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1613176-1: Tape sample 20711002-TL205CL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1613177-1: Tape sample 20711002-TL206CL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1613178-1: Tape sample 20711002-TL207CL				
Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 1613179-1: Tape sample 20711002-TL208CL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1613180-1: Tape sample 20711002-TL209CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1613181-1: Tape sample 20711002-TL210CL				
Scant	None	None	None	No mold spores detected
Lab ID-Version: 1613182-1: Tape sample 20711002-TL211CL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1613183-1: Tape sample 20711002-TL212CL				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 1613184-1: Tape sample 20711002-TL213CL				
Scant	None	None	None	No mold spores detected

Background Debris and/or Description	Miscellaneous Spores Present*	MOLD GROWTH: Molds seen with underlying mycelial and/or sporulating structures†	Other Comments††	General Impression
Lab ID-Version‡: 1613185-1: Tape sample 20711002-TL214CL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1613186-1: Tape sample 20711002-TL215CL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1613187-1: Tape sample 20711002-TL216CL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1613188-1: Tape sample 20711002-TL217CL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1613189-1: Tape sample 20711002-TL218CL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1613190-1: Tape sample 20711002-TL219CL				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1613191-1: Tape sample 20711002-TL220CL				
Light	Very few	None	None	Normal trapping

‡ A "Version" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20711002

Date of Sampling: 12-03-2007
Date of Receipt: 12-04-2007
Date of Report: 12-10-2007

DIRECT MICROSCOPIC EXAMINATION REPORT

(Wet Mount)

Background Debris and/or Description	Miscellaneous Spores Present*	MOLD GROWTH: Molds seen with underlying mycelial and/or sporulating structures†	Other Comments††	General Impression
Lab ID-Version‡: 1602891-1: Swab sample 20711002-S01CL				
Moderate	Very few	3+ <i>Cladosporium</i> species (spores, hyphae, conidiophores) 3+ <i>Alternaria</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 1602892-1: Swab sample 20711002-S02CL				
Moderate	Very few	4+ <i>Cladosporium</i> species (spores, hyphae, conidiophores) 3+ <i>Penicillium</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 1602893-1: Swab sample 20711002-S03CL				
Moderate	Very few	2+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 1602894-1: Swab sample 20711002-S04CL				
Moderate	Very few	3+ <i>Penicillium</i> species (spores, hyphae, conidiophores) 3+ <i>Cladosporium</i> species (spores, hyphae, conidiophores) 2+ <i>Ulocladium</i> species (spores, hyphae, conidiophores) < 1+ zygomycetes (sporangiophore)	None	Mold growth
Lab ID-Version: 1602895-1: Swab sample 20711002-S05CL				
Moderate	Very few	3+ <i>Cladosporium</i> species (spores, hyphae, conidiophores) 1+ <i>Ulocladium</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 1602896-1: Swab sample 20711002-S06CL				
Moderate	Very few	2+ <i>Cladosporium</i> species (spores, hyphae, conidiophores) 1+ <i>Alternaria</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 1602897-1: Swab sample 20711002-S07CL				
Moderate	Very few	1+ <i>Cladosporium</i> species (spores, hyphae, conidiophores) 1+ <i>Acremonium</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 1602898-1: Swab sample 20711002-S08CL				
Moderate	Very few	3+ colorless spores typical of <i>Penicillium</i> / <i>Aspergillus</i> (spores, hyphae, conidiophores) 2+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	None	Mold growth