



HYGIENETECH

Hygiene Technologies International, Inc.

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June 19, 2008

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

Document No. 20712001.3 Revised

Attention: David Gau

Regarding: Limited Indoor Air Quality Survey
11TH Floor

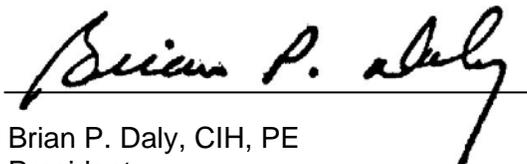
Dear Mr. Gau:

On various dates in December of 2007 and March of 2008, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted a limited indoor air quality survey on the 11TH Floor of the California State Board of Equalization building located at the above referenced 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



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LIMITED INDOOR AIR QUALITY SURVEY

450 N STREET – 11TH 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

JUNE 19, 2008



1.0 BACKGROUND

On various dates in December, 2007 and March of 2008, industrial hygienist with Hygiene Technologies International, Inc. (HygieneTech) conducted a limited indoor air quality survey on the 11TH 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 11TH 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 the 11TH 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 20712001-109 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 15TH Floor locations and two samples were collected outdoors on the applicable survey date for comparison purposes. The resultant data, which are presented in spores/M³, appear in Table 20712001-103.

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 20712001-104.

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 20712001-105.

3.4 Airborne Fibrous

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 20712001-106.

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 20712001-107.

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 the AIHA field guide. These data are presented in mg/M³ and appear in Table 20803001-108.



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 11th 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 a stationary location using a Telaire[®]7001 Carbon Dioxide and Temperature Monitor along with HOBO[®] data logger. The data are presented in ppm.

3.10 Air Temperature and Relative Humidity

Air temperature and relative humidity data were recorded at a stationary location using a Telaire[®]7001 Carbon Dioxide and Temperature Monitor along with the HOBO[®] data logger.

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, with basidiospores predominating in both samples. Indoors, the data showed low airborne concentrations of common fungal spores that included one or more of the following: *Alternaria*, ascospores, basidiospores, *Bipolaris/Drechslera* group, *Chaetomium*, *Cladosporium*, *Curvularia*, other brown, colorless spores typical of *Penicillium* and *Aspergillus* species, smuts, *Stemphylium*, and/or *Ulocladium*. Indoors, the distribution of fungal spore types detected in the surveyed areas was generally consistent with those found outdoors, and the overall data within the tested areas were well below the overall 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 overall levels of 2,281 and 2,049 CFU/M³ in the two outdoor samples collected, with yeasts predominating in both. Indoors, low levels of common fungi were found including *Acremonium*, *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 office furniture throughout the 11TH 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 indicated low levels of *Alternaria*, *Aspergillus*, *Cladosporium*, *Ulocladium*, and/or zygomycetes fungal growth. 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 data 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 ranging from 0.005 f/cc to 0.01 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 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 total dust was not detected at or above the laboratory analytical detection limit of 0.1 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



4.0 DISCUSSION (CONTINUED)

4.5 Airborne Total Dust (Continued)

areas monitored. These data are well below the State of California, 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 (MVOC's) 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. MVOC's 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 367 ng/m³ to 661 ng/m³, 2-hexanone at levels ranging from 125 ng/m³ to 182 ng/m³, and 2-heptanone ranging from 166 ng/m³ to 207 ng/m³. Microbial growth related 1-butanol, 2-hexanone, and 2-heptanone 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, 2-heptanone, and 2-heptanone were detected at low levels without the other above mentioned MVOCs would indicate that its presence on the 11TH Floor was most likely not fungal growth related and attributable to common office products and/or personal products such as perfumes and other personal cosmetic products. All such data are well below the applicable Cal-OSHA 8-hour TWA PELs as defined in T8, CCR § 5155.

4.7 Airborne Volatile Organic Compounds

With the use of a direct-reading photoionization detector, VOCs were not detected at or above the instruments 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.



4.0 DISCUSSION (CONTINUED)

4.9 Airborne Carbon Dioxide

The direct-reading results indicated that CO₂ was detected at levels ranging from 250 to 690 ppm on the 11TH 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 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 unhealthful 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 71.6 and 80.6 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 22 to 38 percent. Such levels were well within 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*, *Aspergillus*, *Cladosporium*, *Ulocladium*, and/or zygomycetes fungal growth. 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 be 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 11TH 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 occupants.
- 5.4 The airborne MVOC data indicated the presence of 1-butanol at levels ranging from 367 ng/m³ to 661 ng/m³, 2-hexanone at levels ranging from 125 ng/m³ to 182 ng/m³, and 2-heptanone ranging from 166 ng/m³ to 207 ng/m³. Microbial growth related 1-butanol, 2-hexanone, and 2-heptanone 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, 2-heptanone, and 2-heptanone were detected at low levels without the other above mentioned MVOCs would indicate that their presence on the 11TH Floor was most likely not fungal growth related and attributable to common office products and/or personal products such as perfumes and other personal cosmetic products. All such data are well below the applicable Cal-OSHA 8-hour TWA PELs as defined in T8, CCR § 5155.
- 5.5 Air temperatures ranged between 71.6 and 80.6 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 22 to 38 percent levels were within 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

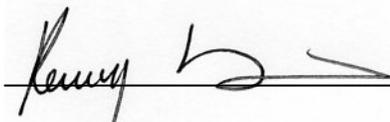
All such recommendations are based strictly on the assessment information and analytical data that were available to HygieneTech at the time this report was prepared. Be advised that, in order to establish data that accurately reflects all the fungal growth sites on the 11TH Floor, additional assessment evaluations may be required as more information is known regarding the history of water intrusion episodes in discrete building areas.



6.0 RECOMMENDATIONS (CONTINUED)

- 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.
- 6.2 Routine cleaning of the HVAC supply air register on the 11TH Floor should be performed to preclude the building-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 11TH 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 11TH 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: June 19, 2008



Brian P. Daly, CIH, PE
President

Date: June 19, 2008



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

**TABLE 20712001-103
AIRBORNE TOTAL FUNGI RESULTS
11TH FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 18, 2007**

Page 1

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

SAMPLE NUMBER	20712001-TM38OUTCL	20712001-TM39CL	20712001-TM40CL	20712001-TM41CL
SAMPLING LOCATION/ACTIVITIES	Outdoors; approximately 25 feet west of building; approximately five feet above ground/Normal outdoor activities	Room 1104; Column K21 area; Cubicle 27; about center; approximately five feet above floor/Normal office activities	Room 1104; adjacent to Column K22; approximately five feet above floor/Normal office activities	Room 1104; Column L18 area; adjacent to Cubicle 8; approximately five feet above floor/Normal office activities
START/STOP	11:30:00/11:35:00	13:49:00/13:54:00	13:57:00/14:02:00	14:07:00/14:12:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores	320			
Aureobasidium				
Basidiospores	2,080	53	107	53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	267	53		
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Other brown		13		
Penicillium/Aspergillus types	320			
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)			13	
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	<13
Background particulates*	1+	2+	2+	1+
TOTAL**	2,987	119	120	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



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Sacramento, California 94279

**TABLE 20712001-103
AIRBORNE TOTAL FUNGI RESULTS
11TH FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 18, 2007**

Page 2

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

SAMPLE NUMBER	20712001-TM42CL	20712001-TM43CL	20712001-TM44CL	20712001-TM45CL
SAMPLING LOCATION/ACTIVITIES	Room 1104; Column N18 area; adjacent to Cubicle 61; approximately five feet above floor/Normal office activities	Room 1104; adjacent to Column N19; approximately five feet above floor/Normal office activities	Room 1104; about center; approximately five feet south of northern wall; approximately five feet above floor/Normal office activities	Room 1104; Column L18 area; adjacent to western partition wall; approximately five feet above floor/Normal office activities
START/STOP	14:15:00/14:20:00	14:21:00/14:26:00	14:27:00/14:32:00	14:34:00/14:39:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores				
Aureobasidium				
Basidiospores	53		107	53
Bipolaris/Drechslera group			13	13
Botrytis				
Chaetomium				
Cladosporium		160		53
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Other brown		13		
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)		13		
Stachybotrys				
Stemphylium				
Torula				
Ulocladium	13			
Unidentified mitosporic fungi				
Hyphal fragments	13	13	<13	<13
Background particulates*	2+	2+	2+	2+
TOTAL**	66	186	120	119

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

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APPENDIX A



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11TH FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 18, 2007**

Page 3

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

SAMPLE NUMBER	20712001-TM46CL	20712001-TM47CL	20712001-TM48CL	20712001-TM49CL
SAMPLING LOCATION/ACTIVITIES	Room 1104; Column K22 area; adjacent to Cubicle 60; approximately five feet above floor/Normal office activities	Room 1104; adjacent to Column N22; approximately five feet above floor/Normal office activities	Room 1104; adjacent to Column N21; approximately five feet above floor/Normal office activities	Southern hallway; about center; approximately five feet above floor/Normal office activities
START/STOP	14:42:00/14:47:00	14:48:00/14:53:00	14:54:00/14:59:00	15:00:00/15:05:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores				107
Aureobasidium				
Basidiospores	53	107	53	320
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53	53	53	160
Curvularia			13	
Epicoccum				
Nigrospora				
Oidium				
Other brown		13		
Penicillium/Aspergillus types		53		
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				27
Stachybotrys				
Stemphylium				
Torula				
Unidentified mitosporic fungi				
Hyphal fragments	<13	<13	<13	<13
Background particulates*	2+	2+	2+	2+
TOTAL**	106	226	119	614

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

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APPENDIX A



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**TABLE 20712001-103
AIRBORNE TOTAL FUNGI RESULTS
11TH FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 18, 2007**

Page 4

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

SAMPLE NUMBER	20712001-TM50CL	20712001-TM51CL	20712001-TM52CL	20712001-TM53CCCL
SAMPLING LOCATION/ACTIVITIES	Western hallway; about center; approximately five feet above floor/Normal office activities	Northern hallway; about center; approximately five feet above floor/Normal office activities	Eastern hallway; about center; approximately five feet above floor/Normal office activities	Room 1104; Column K21 area; approximately five feet west of Cubicle 16; approximately three feet of north of southern perimeter wall; within ceiling plenum/Sampling activities only
START/STOP	15:06:00/15:11:00	15:12:00/15:17:00	15:18:00/15:23:00	15:30:00/15:35:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	27			13
Arthrinium				
Ascospores	53	53		
Aureobasidium				
Basidiospores	267	267	160	53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	107	107	53	53
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Penicillium/Aspergillus types		160	53	
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	27			
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Unidentified mitosporic fungi				
Hyphal fragments	13	27	40	13
Background particulates*	2+	2+	2+	2+
TOTAL **	481	587	266	119

*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 20712001-103
AIRBORNE TOTAL FUNGI RESULTS
11TH FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 18, 2007

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

SAMPLE NUMBER	20712001-TM54CCCL	20712001-TM55CCCL	20712001-TM56CCCL	20712001-TM57CCCL
SAMPLING LOCATION/ACTIVITIES	Room 1104; adjacent to Column K19; within ceiling plenum/ Sampling activities only	Room 1104; adjacent to Column K18; within ceiling plenum/ Sampling activities	Room 1104; adjacent to Column L18 ; within ceiling plenum/ Sampling activities only	Room 1104; adjacent to Column M18; within ceiling plenum/ Sampling activities only
START/STOP	15:40:00/15:45:00	15:43:00/15:48:00	15:58:00/16:03:00	16:03:00/16:08:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores		53		
Aureobasidium				
Basidiospores	53	53	53	213
Bipolaris/Drechslera group				
Botrytis				
Chaetomium			13	
Cladosporium	160	160	107	480
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)			13	
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Unidentified mitosporic fungi				
Hyphal fragments	<13	<13	<13	<13
Background particulates*	2+	2+	2+	2+
TOTAL**	213	266	186	693

*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 20712001-103
AIRBORNE TOTAL FUNGI RESULTS
11TH FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 18, 2007

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

SAMPLE NUMBER	20712001-TM58CCCL	20712001-TM59CCCL	20712001-TM60CCCL	20712001-TM61OUTCL
SAMPLING LOCATION/ACTIVITIES	Room 1104; adjacent to Column N18; within ceiling plenum/ Sampling activities only	Room 1104; adjacent to Column N22; within ceiling plenum/ Sampling activities only	Room 1104; adjacent to Column L22; within ceiling plenum/ Sampling activities only	Outdoors; approximately 25 feet west of building; approximately five feet above ground/Normal outdoor activities
START/STOP	16:11:00/16:16:00	16:18:00/16:23:00	16:26:00/16:31:00	16:51:00/16:56:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores			53	693
Aureobasidium				
Basidiospores	107	107	320	2,030
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	320		107	853
Curvularia				
Epicoccum				
Nigrospora				
Other brown		13		
Oidium				
Penicillium/Aspergillus types	53	53		267
Pithomyces				
Rusts				
Smuts		13		
Stachybotrys				
Stemphylium	13			
Torula				
Ulocladium				
Unidentified mitosporic fungi				
Hyphal fragments	13	<13	<13	<13
Background particulates*	2+	2+	2+	1+
TOTAL **	493	186	480	3,843

*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 20712001-104
AIRBORNE VIABLE FUNGI RESULTS
11TH FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 18, 2007

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

SAMPLE NUMBER	20712001-VM01OUTCL	20712001-VM02CL	20712001-VM03CL	20712001-VM04CL
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 25 feet west of building; approximately five feet above ground/Normal office activities	Room 1104; Column K21 area; Cubicle 27; approximately five feet above floor/Normal office activities	Room 1104; Column K20 area; adjacent to window; approximately five feet above floor/Normal office activities	Room 1104; adjacent to Column K18; approximately five feet above floor/Normal office activities
START/STOP	11:37:00/11:39:00	13:53:00/13:55:00	14:00:00/14:02:00	14:05:00/14:07:00
SAMPLE TIME	2 minutes	2 minutes	2 minutes	2 minutes
Acremonium				
Alternaria				
Aspergillus flavus				
Aspergillus niger				
Aspergillus other				
Aspergillus versicolor				
Aureobasidium	35			
Beauveria				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	919			
Curvularia				
Epicoccum				
Nigrospora				
Memnoniella				
Myrothecium				
Non-sporulating fungi	124	35		
Others				
Paecilomyces				
Penicillium	53	18		
Phoma/coelomycetes				
Sporobolomyces				
Stachybotrys				
Torula herbarum				
Trichoderma				
Ulocladium				
Yeasts	1,150	18	18	35
TOTAL	2,281	71	18	35

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

**TABLE 20712001-104
AIRBORNE VIABLE FUNGI RESULTS
11TH FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 18, 2007**

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

SAMPLE NUMBER	20712001-VM05CL	20712001-VM06CL	20712001-VM07CL	20712001-VM08CL
SAMPLING LOCATION/ACTIVITIES	Room 1104; adjacent to Column L18; approximately five feet above floor/Normal office activities	Room 1104; Column N19 area; adjacent to window; approximately five feet above/Normal office activities	Room 1104; Column N21 area; adjacent to window; approximately five feet above floor/Normal office activities	Area between Columns L22 and M22; hallway; approximately five feet above floor/Normal office activities
START/STOP	14:14:00/14:16:00	14:30:00/14:32:00	14:33:00/14:35:00	14:49:00/14:51:00
SAMPLE TIME	2 minutes	2 minutes	2 minutes	2 minutes
Acremonium			18	
Alternaria				
Aspergillus flavus				
Aspergillus niger				
Aspergillus other				
Aspergillus versicolor				
Aureobasidium				
Beauveria				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium			18	
Curvularia				
Epicoccum				
Fusarium				
Memnoniella				
Myrothecium				
Non-sporulating fungi	18			18
Others				
Paecilomyces				
Penicillium		35		
Phoma/coelomycetes				
Sporobolomyces				
Stachybotrys				
Torula herbarum				
Trichoderma				
Ulocladium				
Yeasts			18	
TOTAL	18	35	36	18

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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CLIENT: California State Board of Equalization
450 N Street
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TABLE 20712001-104
AIRBORNE VIABLE FUNGI RESULTS
11TH FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 18, 2007

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

SAMPLE NUMBER	20712001-VM09CL	20712001-VM10CL	20712001-VM11OUTCL	
SAMPLING LOCATION/ACTIVITIES	Southern hallway; eastern end; approximately five feet above floor/Normal office activities	Northern hallway; western end; approximately five feet above floor/Normal office activities	Outdoors; about 25 feet west of building; approximately five feet above ground/Normal office activities	This column intentionally left blank
START/STOP	15:00:00/15:02:00	15:10:00/15:12:00	16:52:00/16:54:00	
SAMPLE TIME	2 minutes	2 minutes	2 minutes	
Acremonium			18	
Alternaria				
Aspergillus flavus				
Aspergillus niger				
Aspergillus other				
Aspergillus versicolor				
Aureobasidium				
Beauveria				
Bipolaris/Drechslera group		18		
Botrytis				
Chaetomium				
Cladosporium			424	
Curvularia				
Epicoccum				
Fusarium			18	
Memnoniella				
Mucor	18			
Myrothecium				
Non-sporulating fungi		18	71	
Paecilomyces				
Penicillium		35	88	
Phoma/coelomycetes				
Sporobolomyces				
Stachybotrys				
Torula herbarum				
Trichoderma				
Ulocladium				
Yeasts		53	1,430	
TOTAL	18	124	2,049	

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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

TABLE 20712001-105
SURFACE FUNGAL GROWTH POTENTIALS
11TH FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 20, 2007

SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	MISCELLANEOUS FUNGI/POLLEN*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	LOOSE SPORES/ OTHER COMMENTS**	GENERAL IMPRESSION
20712001-TL201CL	Room 1104; Column K18 area; southeastern corner cubicle; northern cubicle partition; about center; from horizontal surface of plastic	Light	Very few	None	None	Background
20712001-TL202CL	Room 1104; Column K18 area; Cubicle 62; southern cubicle partition; about center; from vertical surface of fabric	Light	Very few	None	None	Background
20712001-TL203CL	Room 1104; Column K19 area; Cubicle 10; southern cubicle partition; at southwestern corner; from vertical surface of fabric	Light	Very few	None	None	Background
20712001-TL204CL	Room 1104; Column K19 area; Cubicle 14; eastern cubicle partition; at southeastern corner; from horizontal surface of plastic	Light	Very few	None	None	Background
20712001-TL205CL	Room 1104; Column K20 area; shelf #14; southern end; from horizontal surface	Light	Very few	None	None	Background
20712001-TL206CL	Room 1104; Column K21 area; Cubicle 16; western cubicle partition; at southwestern corner; from vertical surface of fabric	Light	Very few	None	None	Background
20712001-TL207CL	Room 1104; Column K22 area; southwestern corner; from horizontal surface of bookshelf	Moderate	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.

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

TABLE 20712001-105
SURFACE FUNGAL GROWTH POTENTIALS
11TH FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 20, 2007

SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	MISCELLANEOUS FUNGI/POLLEN*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	LOOSE SPORES/ OTHER COMMENTS**	GENERAL IMPRESSION
20712001-TL208CL	Room 1104; Column K21 area; Cubicle 27; northern cubicle partition; at northeastern corner; from vertical surface of fabric	Moderate	Few	None	None	Background
20712001-TL209CL	Room 1104; Column K21 area; Cubicle 27; grey arm chair; from horizontal surface of fabric	Light	Very few	None	None	Background
20712001-TL210CL	Room 1104; Column K20 area; Cubicle 17.01; northern cubicle partition; at northeastern corner; from vertical surface of fabric	Light	Very few	None	None	Background
20712001-TL211CL	Room 1104; Column L22 area; Cubicle 19; southern cubicle partition; at southwestern corner; from horizontal surface of plastic	Light	Very few	None	None	Background
20712001-TL212CL	Room 1104; Column M22 area; Cubicle 39; western cubicle partition; at southwestern corner; from vertical surface of fabric	Light	Very few	None	None	Background
20712001-TL213CL	Room 1104; Column M22 area; Cubicle 36; computer chair; from vertical surface of fabric	Light	Very few	None	None	Background
20712001-TL214CL	Room 1104; Column N20 area; Cubicle 53; northern cubicle partition; at northwestern corner; from vertical surface of fabric	Light	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.

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

TABLE 20712001-105
SURFACE FUNGAL GROWTH POTENTIALS
11TH FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 20, 2007

SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	MISCELLANEOUS FUNGI/POLLEN*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	LOOSE SPORES/ OTHER COMMENTS**	GENERAL IMPRESSION
20712001-TL215CL	Room 1104; Column N20 area; Cubicle 55; eastern cubicle partition; at northeastern corner; from horizontal surface of plastic	Light	Very few	None	None	Background
20712001-TL216CL	Room 1104; Column N20 area; bookshelf; northern end; from vertical surface of metal	Light	Very few	None	None	Background
20712001-TL217CL	Room 1104; Column N18 area; Cubicle 61; southern cubicle partition; at southwestern corner; from vertical surface of fabric	Light	Very few	None	None	Background
20712001-TL218CL	Room 1104; Column L18 area; Cubicle 4.0; southern cubicle partition; at southeastern corner; from vertical surface of fabric	Light	Very few	None	None	Background
20712001-TL219CL	Room 1104; Column L18 area; Cubicle 9; southern cubicle partition; at southeastern corner; from horizontal surface of plastic	Light	Very few	None	None	Background
20712001-TL220CL	Room 1104; Column L18 area; Cubicle 5; grey office chair; from vertical surface of fabric	Light	Very few	None	None	Background
20712001-S201CL	Room 1104; ceiling; about five feet west of Cubicle 16; ceiling; approximately three feet north of southern perimeter wall; from reverse side of HVAC supply air register	Moderate	Few	1+ <i>Alternaria</i> species (spores, hyphae)	None	Fungal growth

*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 20712001-105
SURFACE FUNGAL GROWTH POTENTIALS
11TH FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 20, 2007

SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	MISCELLANEOUS FUNGI/POLLEN*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	LOOSE SPORES/ OTHER COMMENTS**	GENERAL IMPRESSION
20712001-S202CL	Room 1104; adjacent to Column K20; ceiling; from reverse side of HVAC supply air register	Moderate	Few	1+ <i>Alternaria</i> species (spores, hyphae)	None	Fungal growth
20712001-S203CL	Room 1104; adjacent to Column K18; ceiling; from reverse side of HVAC supply air register	Moderate	Few	1+ <i>Alternaria</i> species (spores, hyphae) <1+zygomycetes (spores, sporangiophores)	None	Fungal growth
20712001-S204CL	Room 1104; adjacent to Column L18; ceiling; from reverse side of HVAC supply air register	Moderate	Few	<1+ <i>Alternaria</i> species (spores, hyphae)	None	Minimal fungal growth
20712001-S205CL	Room 1104; adjacent to Column M18; ceiling; from reverse side of HVAC supply air register	Moderate	Few	1+ <i>Cladosporium</i> species (spores, hyphae) 1+ <i>Alternaria</i> species (spores, hyphae) <1+zygomycetes (spores, sporangiophores)	None	Fungal growth
20712001-S206CL	Room 1104; adjacent to Column N18; ceiling; from reverse side of HVAC supply air register	Moderate	Few	<1+ <i>Alternaria</i> species (spores, hyphae)	None	Minimal fungal growth
20712001-S207CL	Room 1104; adjacent to Column N22; ceiling; from reverse side of HVAC supply air register	Moderate	Few	<1+ zygomycetes (spores, sporangiophores) <1+ <i>Aspergillus</i> species (spores, hyphae, conidiophores)	None	Minimal fungal growth

*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.

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CLIENT: California State Board of Equalization
450 N Street
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TABLE 20712001-105
SURFACE FUNGAL GROWTH POTENTIALS
11TH FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 20, 2007

SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	MISCELLANEOUS FUNGI/POLLEN*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	LOOSE SPORES/ OTHER COMMENTS**	GENERAL IMPRESSION
20712001-S208CL	Room 1104; area between Columns M22 and L22; ceiling; from reverse side of HVAC supply air register	Moderate	Few	<1+ zygomycetes (spores, sporangiophores) <1+ <i>Ulocladium</i> species (spores, hyphae)	None	Minimal fungal growth

*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 20712001-106
AIRBORNE FIBERS RESULTS
11TH FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 18 AND 19, 2007**

NAME/ REFERENCE	DATE	LOCATION/ ACTIVITIES	PPE USED	SAMPLE NUMBER	START/ STOP	SAMPLE TIME	CONTAMINANT	RESULTS (f/cc)	PEL (f.cc)
Area Sample	12-18-07	Room 1104; Column L18 area; southeastern corner; approximately five feet above floor/Normal office activities	N/A	20712001-F13CL	9:20/ 17:30	490 minutes	Fibers	0.005	0.1
Area Sample	12-18-07	Room 1104; adjacent to Column K18; approximately five feet above floor/Normal office activities	N/A	20712001-F14CL	9:25/ 17:25	490 minutes	Fibers	0.008	0.1
Area Sample	12-18-07	Room 1104; Column K20 area; adjacent to window; approximately five feet above floor/Normal office activities	N/A	20712001-F15CL	9:30/ 17:40	490 minutes	Fibers	0.007	0.1
Area Sample	12-18-07	Room 1104; adjacent to Column K21; approximately five feet above floor/Normal office activities	N/A	20712001-F16CL	9:35/ 17:45	490 minutes	Fibers	0.01	0.1
Area Sample	12-18-07	Room 1104; adjacent to Column L22; approximately five feet above floor/Normal office activities	N/A	20712001-F17CL	9:40/ 17:50	490 minutes	Fibers	0.010	0.1
Blank	12-18-07	N/A	N/A	20712001-F18 BLANKCL	N/A	N/A	Fibers	All data blank corrected	N/A
Area Sample	12-19-07	Room 1104; adjacent to Column N22; approximately five feet above floor/Normal office activities	N/A	20712001-F19CL	9:00/ 17:10	490 minutes	Fibers	0.01	0.1
Area Sample	12-19-07	Room 1104; adjacent to Column N20; approximately five feet above floor/Normal office activities	N/A	20712001-F20CL	9:05/ 17:15	490 minutes	Fibers	0.009	0.1
Area Sample	12-19-07	Room 1104; adjacent to Column N19; approximately five feet above floor/Normal office activities	N/A	20712001-F21CL	9:10/ 17:20	490 minutes	Fibers	0.007	0.1
Area Sample	12-19-07	Room 1104; Column M18 area; northeastern corner; approximately five feet above floor/Normal office activities	N/A	20712001-F22CL	9:15/ 17:25	490 minutes	Fibers	<0.004	0.1
Area Sample	12-19-07	Room 1104; area between Columns M18 and L18; approximately five feet above floor/Normal office activities	N/A	20712001-F23CL	9:20/ 17:30	490 minutes	Fibers	0.008	0.1
Blank	12-19-07	N/A	N/A	20712001-F24 BLANKCL	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.

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

APPENDIX A



**TABLE 20712001-3
AIRBORNE TOTAL DUST RESULTS
11th FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 18 AND 19, 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	12-18-07	Room 1104; Column L18 area; southeastern corner; approximately five feet above floor/Normal office activities	N/A	20712001 -TD13CL	9:20/ 17:30	490 minutes	Total dust	<0.1	10
Area Sample	12-18-07	Room 1104; adjacent to Column K18; approximately five feet above floor/Normal office activities	N/A	20712001 -TD14CL	9:25/ 17:25	490 minutes	Total dust	<0.1	10
Area Sample	12-18-07	Room 1104; Column K20 area; adjacent to window; approximately five feet above floor/Normal office activities	N/A	20712001 -TD15CL	9:30/ 17:40	490 minutes	Total dust	<0.1	10
Area Sample	12-18-07	Room 1104; adjacent to Column K21; approximately five feet above floor/Normal office activities	N/A	20712001 -TD16CL	9:35/ 17:45	490 minutes	Total dust	<0.1	10
Area Sample	12-18-07	Room 1104; adjacent to Column L22; approximately five feet above floor/Normal office activities	N/A	20712001 -TD17CL	9:40/ 17:50	490 minutes	Total dust	<0.1	10
Blank	12-18-07	N/A	N/A	20712001 -TD18 BLANK	N/A	N/A	Total dust	All data blank corrected	N/A
Area Sample	12-19-07	Room 1104; adjacent to Column N22; approximately five feet above floor/Normal office activities	N/A	20712001 -TD19CL	9:00/ 17:10	490 minutes	Total dust	<0.1	10
Area Sample	12-19-07	Room 1104; adjacent to Column N20; approximately five feet above floor/Normal office activities	N/A	20712001 -TD20CL	9:05/ 17:15	490 minutes	Total dust	<0.1	10
Area Sample	12-19-07	Room 1104; adjacent to Column N19; approximately five feet above floor/Normal office activities	N/A	20712001 -TD21CL	9:10/ 17:20	490 minutes	Total dust	<0.1	10
Area Sample	12-19-07	Room 1104; Column M18 area; northeastern corner; approximately five feet above floor/Normal office activities	N/A	20712001 -TD22CL	9:15/ 17:25	490 minutes	Total dust	<0.1	10
Area Sample	12-19-07	Room 1104; area between Columns M18 and L18; approximately five feet above floor/Normal office activities	N/A	20712001 -TD23CL	9:20/ 17:30	490 minutes	Total dust	<0.1	10
Blank	12-19-07	N/A	N/A	20712001 -TD24 BLANK	N/A	N/A	Total dust	All data blank corrected	N/A

LEGEND

PPE: Personal protective equipment
N/A: Not applicable
mg/M³: Milligrams per cubic meter

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

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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

APPENDIX A



TABLE 20712001-108
MICROBIAL VOLATILE ORGANIC COMPOUNDS
11TH FLOOR
SACRAMENTO, CALIFORNIA
MARCH 25, 2008

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NAME/ REFERENCE	LOCATION/ ACTIVITIES	PPE USED	SAMPLE NUMBER	START/ STOP	SAMPLE TIME	CONTAMINANT	RESULTS (mg/m ³)	PEL (mg/m ³)
Area Sample	Room 1104; about ten feet southeast of Column K20; approximately five feet above floor/Normal office activities	N/A	20803001- M13JL	14:25/ 16:00	95 minutes	3-Methylfuran	nd	N/A
						2-Methyl-1-propanol	nd	N/A
						1-Butanol	376 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	125 x10 ⁻⁶	410
						2-Heptanone	166 x10 ⁻⁶	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 20712001-108
MICROBIAL VOLATILE ORGANIC COMPOUNDS
11TH FLOOR
SACRAMENTO, CALIFORNIA
MARCH 25, 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	Room 1104; Column L18 area; about one foot west of Cubicle 005; approximately five feet above floor/Normal office activities	N/A	20803001-M14JL	14:29/ 16:03	94 minutes	3-Methylfuran	nd	N/A
						2-Methyl-1-propanol	nd	N/A
						1-Butanol	444 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	153 x10 ⁻⁶	410
						2-Heptanone	199 x10 ⁻⁶	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 20712001-108
MICROBIAL VOLATILE ORGANIC COMPOUNDS
11TH FLOOR
SACRAMENTO, CALIFORNIA
MARCH 25, 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	Room 1104; Column N20 area; about six feet northwest of Cubicle 4.8; approximately five feet above floor/Normal office activities	N/A	20803001- M15JL	14:34/ 16:05	91 minutes	3-Methylfuran	nd	N/A
						2-Methyl-1-propanol	nd	N/A
						1-Butanol	661 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	171 x10 ⁻⁶	410
						2-Heptanone	193 x10 ⁻⁶	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 20712001-108
MICROBIAL VOLATILE ORGANIC COMPOUNDS
11TH FLOOR
SACRAMENTO, CALIFORNIA
MARCH 25, 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	Room 1104; Column M22 area; about six feet east of Cubicle 33; approximately five feet above floor/Normal office activities	N/A	20803001-M16JL	14:37/ 16:08	91 minutes	3-Methylfuran	nd	N/A
						2-Methyl-1-propanol	nd	N/A
						1-Butanol	569 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	182 x10 ⁻⁶	410
						2-Heptanone	207 x10 ⁻⁶	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 20712001-109
DIRECT-READING RESULTS
11TH FLOOR
SACRAMENTO, CALIFORNIA
DECEMBER 18, 2007

LOCATION/SITE ACTIVITIES	SAMPLE TIME	CONTAMINANT	RESULTS (ppm)	COMMENTS
Northwestern corner; adjacent to Column N22; approximately five feet above floor/Normal office activities	12:10/12:14	Volatile Organic Compounds	ND < 0.1	N/A
		Ozone	ND < 0.05	
Southwestern corner; adjacent to Column K22; approximately five feet above floor/Normal office activities	12:16/12:20	Volatile Organic Compounds	ND < 0.1	N/A
		Ozone	ND < 0.05	
Southeastern corner; adjacent to Column K18; approximately five feet above floor/Normal office activities	12:22/12:26	Volatile Organic Compounds	ND < 0.1	N/A
		Ozone	ND < 0.05	
Northeastern corner; adjacent to Column N18; approximately five feet above floor/Normal office activities	12:30/12:35	Volatile Organic Compounds	ND < 0.1	N/A
		Ozone	ND < 0.05	

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: 20712001
EML ID: 371428

Approved by:

Lab Manager
Dr. Kamashwaran Ramanathan

Dates of Analysis:

Culturable air fungi (Incl. Asp spp.): 12-26-2007
Direct microscopic exam (Qualitative): 12-27-2007
Spore trap analysis: 12-27-2007

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.

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

Date of Sampling: 12-18-2007
Date of Receipt: 12-20-2007
Date of Report: 12-27-2007

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20712001-TM38outCL		20712001-TM39CL		20712001-TM40CL		20712001-TM41CL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1627135-1		1627136-1		1627137-1		1627138-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*	6	320						
Aureobasidium								
Basidiospores*	39	2,080	1	53	2	107	1	53
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	5	267	1	53				
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown			1	13				
Other colorless								
Penicillium/Aspergillus types†	6	320						
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*					1	13		
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Unknown								
Zygomycetes								
Background debris (1-4+)††	1+		2+		2+		1+	
Hyphal fragments/m3	< 13		< 13		< 13		< 13	
Pollen/m3	13		27		< 13		< 13	
Skin cells (1-4+)	< 1+		2+		2+		1+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		2,987		119		120		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: 20712001

Date of Sampling: 12-18-2007
 Date of Receipt: 12-20-2007
 Date of Report: 12-27-2007

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20712001-TM42CL		20712001-TM43CL		20712001-TM44CL		20712001-TM45CL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1627139-1		1627140-1		1627141-1		1627142-1	
	raw ct.	spores/m3						
Alternaria								
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*	1	53			2	107	1	53
Bipolaris/Drechslera group					1	13	1	13
Botrytis								
Chaetomium								
Cladosporium			3	160			1	53
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	1	13						
Unknown								
Zygomycetes								
Background debris (1-4+)††	2+		2+		2+		2+	
Hyphal fragments/m3	13		13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	1+		1+		2+		1+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		66		186		120		119

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

Date of Sampling: 12-18-2007
Date of Receipt: 12-20-2007
Date of Report: 12-27-2007

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20712001-TM46CL		20712001-TM47CL		20712001-TM48CL		20712001-TM49CL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1627143-1		1627146-1		1627148-1		1627149-1	
	raw ct.	spores/m3						
Alternaria								
Arthrinium								
Ascospores*							2	107
Aureobasidium								
Basidiospores*	1	53	2	107	1	53	6	320
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	1	53	1	53	1	53	3	160
Curvularia					1	13		
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown			1	13				
Other colorless								
Penicillium/Aspergillus types†			1	53				
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*							2	27
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Unknown								
Zygomycetes								
Background debris (1-4+)††	2+		2+		2+		2+	
Hyphal fragments/m3	< 13		< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	1+		2+		2+		2+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		106		226		119		614

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: 20712001

Date of Sampling: 12-18-2007
Date of Receipt: 12-20-2007
Date of Report: 12-27-2007

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20712001-TM50CL		20712001-TM51CL		20712001-TM52CL		20712001-TM53CCCL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1627150-1		1627151-1		1627152-1		1627153-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	2	27					1	13
Arthrinium								
Ascospores*	1	53	1	53				
Aureobasidium								
Basidiospores*	5	267	5	267	3	160	1	53
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	2	107	2	107	1	53	1	53
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown								
Other colorless								
Penicillium/Aspergillus types†			3	160	1	53		
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*	2	27						
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Unknown								
Zygomycetes								
Background debris (1-4+)††	2+		2+		2+		2+	
Hyphal fragments/m3	13		27		40		13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	2+		2+		1+		2+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		481		587		266		119

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: 20712001

Date of Sampling: 12-18-2007
Date of Receipt: 12-20-2007
Date of Report: 12-27-2007

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20712001-TM54CCCL		20712001-TM55CCCL		20712001-TM56CCCL		20712001-TM57CCCL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1627154-1		1627155-1		1627156-1		1627157-1	
	raw ct.	spores/m3						
Alternaria								
Arthrinium								
Ascospores*			1	53				
Aureobasidium								
Basidiospores*	1	53	1	53	1	53	4	213
Bipolaris/Drechslera group								
Botrytis								
Chaetomium					1	13		
Cladosporium	3	160	3	160	2	107	9	480
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown								
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*					1	13		
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Unknown								
Zygomycetes								
Background debris (1-4+)††	2+		2+		2+		2+	
Hyphal fragments/m3	< 13		< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+		2+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		213		266		186		693

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: 20712001

Date of Sampling: 12-18-2007
 Date of Receipt: 12-20-2007
 Date of Report: 12-27-2007

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20712001-TM58CCCL		20712001-TM59CCCL		20712001-TM60CCCL		20712001-TM61outCL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1627158-1		1627159-1		1627160-1		1627161-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*					1	53	13	693
Aureobasidium								
Basidiospores*	2	107	2	107	6	320	38	2,030
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	6	320			2	107	16	853
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown			1	13				
Other colorless								
Penicillium/Aspergillus types†	1	53	1	53			5	267
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*			1	13				
Stachybotrys								
Stemphylium	1	13						
Torula								
Ulocladium								
Unknown								
Zygomycetes								
Background debris (1-4+)††	2+		2+		2+		1+	
Hyphal fragments/m3	13		< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	2+		2+		1+		1+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		493		186		480		3,843

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: 20712001

Date of Sampling: 12-18-2007
Date of Receipt: 12-20-2007
Date of Report: 12-27-2007

MoldRANGE™: Extended Outdoor Comparison**Outdoor Location: 20712001-TM38outCL**

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	200	40	7	27	230	61
Bipolaris/Drechslera group	-	7	13	170	15	7	13	120	14
Chaetomium	-	7	13	140	11	7	13	110	19
Cladosporium	267	27	370	6,400	92	53	640	6,500	98
Curvularia	-	7	27	580	14	7	13	210	7
Nigrospora	-	7	13	170	12	7	13	170	8
Penicillium/Aspergillus types	320	27	210	2,400	86	44	210	2,500	89
Stachybotrys	-	7	13	340	3	7	13	330	5
Torula	-	7	13	150	7	7	13	150	13
Seldom found growing indoors**									
Ascospores	320	13	110	2,900	65	13	110	1,800	73
Basidiospores	2,080	13	270	12,000	88	13	270	7,100	95
Rusts	-	7	13	200	14	7	13	270	29
Smuts, Periconia, Myxomycetes	-	7	27	360	62	8	40	480	72
TOTAL SPORES/M3	2,987								

† 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: 20712001

Date of Sampling: 12-18-2007
Date of Receipt: 12-20-2007
Date of Report: 12-27-2007

MoldRANGE™: Extended Outdoor Comparison**Outdoor Location: 20712001-TM61outCL**

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	200	40	7	27	230	61
Bipolaris/Drechslera group	-	7	13	170	15	7	13	120	14
Chaetomium	-	7	13	140	11	7	13	110	19
Cladosporium	853	27	370	6,400	92	53	640	6,500	98
Curvularia	-	7	27	580	14	7	13	210	7
Nigrospora	-	7	13	170	12	7	13	170	8
Penicillium/Aspergillus types	267	27	210	2,400	86	44	210	2,500	89
Stachybotrys	-	7	13	340	3	7	13	330	5
Torula	-	7	13	150	7	7	13	150	13
Seldom found growing indoors**									
Ascospores	693	13	110	2,900	65	13	110	1,800	73
Basidiospores	2,030	13	270	12,000	88	13	270	7,100	95
Rusts	-	7	13	200	14	7	13	270	29
Smuts, Periconia, Myxomycetes	-	7	27	360	62	8	40	480	72
TOTAL SPORES/M3	3,843								

† 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.

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 Northern California
 C/O: Mr. Wes Frey
 Re: 20712001

Date of Sampling: 12-18-2007
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 Date of Report: 12-27-2007

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 20712001-TM38outCL:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores				320	13 - 160 - 4,300	76
Basidiospores				2,080	13 - 320 - 14,000	93
Cladosporium				267	52 - 530 - 8,500	95
Penicillium/Aspergillus types				320	27 - 210 - 2,600	86
Smuts, Periconia, Myxomycetes				ND	7 - 40 - 770	71
Total				2,987		

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: 20712001-TM39CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 3%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.0750 Critical value: 0.8000 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Basidiospores				53
	Cladosporium				53
	Other brown				13
	Total				119

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20712001-TM40CL

% 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: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.3250 Critical value: 0.8000 Outside Similar: No	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					107
Smuts, Periconia, Myxomycetes					13
Total					120

Location: 20712001-TM41CL

% 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: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.4000	dF: 4 Result: 0.8500 Critical value: N/A Outside Similar: N/A	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Total					53

Location: 20712001-TM42CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 2%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.3250 Critical value: 0.8000 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Ulocladium					13
Total					66

Client: Hygiene Technologies International, Inc.:
 Northern California
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 Re: 20712001

Date of Sampling: 12-18-2007
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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20712001-TM43CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 6%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: -0.5857 Critical value: 0.7714 Outside Similar: No	Score: 109 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					
Other brown					
Smuts, Periconia, Myxomycetes					
Total					

Location: 20712001-TM44CL

% 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: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.3250 Critical value: 0.8000 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					
Bipolaris/Drechslera group					
Total					

Location: 20712001-TM45CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 3%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.0750 Critical value: 0.8000 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					
Bipolaris/Drechslera group					
Cladosporium					
Total					

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

Date of Sampling: 12-18-2007
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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20712001-TM46CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 3%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.6667	dF: 4 Result: 0.1500 Critical value: N/A Outside Similar: N/A	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					53
Total					106

Location: 20712001-TM47CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 7%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.7500	dF: 5 Result: 0.5250 Critical value: 0.8000 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					107
Cladosporium					53
Other brown					13
Penicillium/Aspergillus types					53
Total					226

Location: 20712001-TM48CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 3%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.0750 Critical value: 0.8000 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					53
Curvularia					13
Total					119

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

Date of Sampling: 12-18-2007
 Date of Receipt: 12-20-2007
 Date of Report: 12-27-2007

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20712001-TM49CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 20%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.7500	dF: 5 Result: 0.4250 Critical value: 0.8000 Outside Similar: No	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					107
Basidiospores					320
Cladosporium					160
Smuts, Periconia, Myxomycetes					27
Total					614

Location: 20712001-TM50CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 16%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.6667	dF: 6 Result: 0.4714 Critical value: 0.7714 Outside Similar: No	Score: 116 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					27
Ascospores					53
Basidiospores					267
Cladosporium					107
Smuts, Periconia, Myxomycetes					27
Total					481

Client: Hygiene Technologies International, Inc.:
 Northern California
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 Re: 20712001

Date of Sampling: 12-18-2007
 Date of Receipt: 12-20-2007
 Date of Report: 12-27-2007

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20712001-TM51CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 19%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 1.0000	dF: 4 Result: 0.6500 Critical value: N/A Outside Similar: N/A	Score: 115 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					53
Basidiospores					267
Cladosporium					107
Penicillium/Aspergillus types					160
Total					587

Location: 20712001-TM52CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 8%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.8571	dF: 4 Result: 0.5500 Critical value: N/A Outside Similar: N/A	Score: 104 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					160
Cladosporium					53
Penicillium/Aspergillus types					53
Total					266

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

Date of Sampling: 12-18-2007
 Date of Receipt: 12-20-2007
 Date of Report: 12-27-2007

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20712001-TM53CCCL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 3%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.0750 Critical value: 0.8000 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Basidiospores					53
Cladosporium					53
Total					119

Location: 20712001-TM54CCCL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 7%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.6667	dF: 4 Result: -0.2000 Critical value: N/A Outside Similar: N/A	Score: 109 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					160
Total					213

Location: 20712001-TM55CCCL

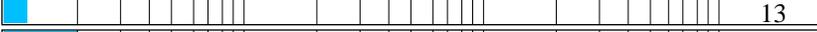
% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 8%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.8571	dF: 4 Result: -0.3500 Critical value: N/A Outside Similar: N/A	Score: 109 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					53
Basidiospores					53
Cladosporium					160
Total					266

Client: Hygiene Technologies International, Inc.:
 Northern California
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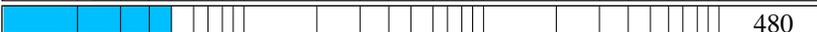
Date of Sampling: 12-18-2007
 Date of Receipt: 12-20-2007
 Date of Report: 12-27-2007

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20712001-TM56CCCL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 6%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: -0.0286 Critical value: 0.7714 Outside Similar: No	Score: 121 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Chaetomium					13
Cladosporium					107
Smuts, Periconia, Myxomycetes					13
Total					186

Location: 20712001-TM57CCCL

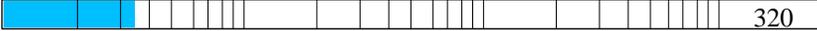
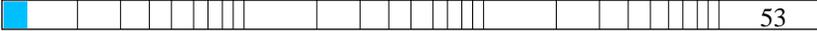
% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 23%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.6667	dF: 4 Result: -0.2000 Critical value: N/A Outside Similar: N/A	Score: 127 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					213
Cladosporium					480
Total					693

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

Date of Sampling: 12-18-2007
 Date of Receipt: 12-20-2007
 Date of Report: 12-27-2007

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20712001-TM58CCCL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 16%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.7500	dF: 5 Result: 0.1250 Critical value: 0.8000 Outside Similar: No	Score: 118 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					107
Cladosporium					320
Penicillium/Aspergillus types					53
Stemphylium					13
Total					493

Location: 20712001-TM59CCCL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 6%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.4429 Critical value: 0.7714 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					107
Other brown					13
Penicillium/Aspergillus types					53
Smuts, Periconia, Myxomycetes					13
Total					186

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

Date of Sampling: 12-18-2007
 Date of Receipt: 12-20-2007
 Date of Report: 12-27-2007

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20712001-TM60CCCL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 16%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.8571	dF: 4 Result: 0.3500 Critical value: N/A Outside Similar: N/A	Score: 104 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					53
Basidiospores					320
Cladosporium					107
Total					480

* 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: 20712001

Date of Sampling: 12-18-2007
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 Date of Report: 12-27-2007

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 20712001-TM61outCL:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores				693	13 - 160 - 4,300	76
Basidiospores				2,030	13 - 320 - 14,000	93
Cladosporium				853	52 - 530 - 8,500	95
Penicillium/Aspergillus types				267	27 - 210 - 2,600	86
Smuts, Periconia, Myxomycetes				ND	7 - 40 - 770	71
Total				3,843		

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: 20712001-TM39CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 3%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.6500 Critical value: 0.8000 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Basidiospores				53
	Cladosporium				53
	Other brown				13
	Total				119

Client: Hygiene Technologies International, Inc.:
 Northern California
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Date of Sampling: 12-18-2007
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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20712001-TM40CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 3%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.3000 Critical value: 0.8000 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					107
Smuts, Periconia, Myxomycetes					13
Total					120

Location: 20712001-TM41CL

% 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: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.4000	dF: 4 Result: 0.8000 Critical value: N/A Outside Similar: N/A	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Total					53

Location: 20712001-TM42CL

% 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: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.3000 Critical value: 0.8000 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Ulocladium					13
Total					66

Client: Hygiene Technologies International, Inc.:
 Northern California
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 Date of Report: 12-27-2007

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20712001-TM43CL

% 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: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: -0.1429 Critical value: 0.7714 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					160
Other brown					13
Smuts, Periconia, Myxomycetes					13
Total					186

Location: 20712001-TM44CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 3%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.3000 Critical value: 0.8000 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					107
Bipolaris/Drechslera group					13
Total					120

Location: 20712001-TM45CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 3%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.6500 Critical value: 0.8000 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Bipolaris/Drechslera group					13
Cladosporium					53
Total					119

Client: Hygiene Technologies International, Inc.:
 Northern California
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 Re: 20712001

Date of Sampling: 12-18-2007
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 Date of Report: 12-27-2007

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20712001-TM46CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 2%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.6667	dF: 4 Result: 0.9000 Critical value: N/A Outside Similar: N/A	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					53
Total					106

Location: 20712001-TM47CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 5%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.7500	dF: 5 Result: 0.6250 Critical value: 0.8000 Outside Similar: No	Score: 106 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					107
Cladosporium					53
Other brown					13
Penicillium/Aspergillus types					53
Total					226

Location: 20712001-TM48CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 3%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.6500 Critical value: 0.8000 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					53
Curvularia					13
Total					119

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

Date of Sampling: 12-18-2007
 Date of Receipt: 12-20-2007
 Date of Report: 12-27-2007

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20712001-TM49CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 15%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.7500	dF: 5 Result: 0.9000 Critical value: 0.8000 Outside Similar: Yes	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					107
Basidiospores					320
Cladosporium					160
Smuts, Periconia, Myxomycetes					27
Total					614

Location: 20712001-TM50CL

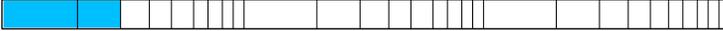
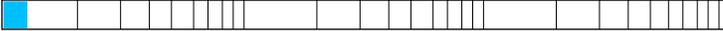
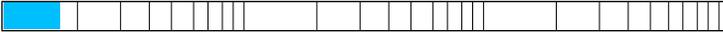
% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 12%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.6667	dF: 6 Result: 0.8286 Critical value: 0.7714 Outside Similar: Yes	Score: 116 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					27
Ascospores					53
Basidiospores					267
Cladosporium					107
Smuts, Periconia, Myxomycetes					27
Total					481

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

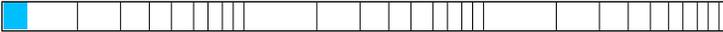
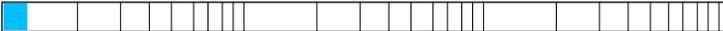
Date of Sampling: 12-18-2007
 Date of Receipt: 12-20-2007
 Date of Report: 12-27-2007

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20712001-TM51CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 15%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 1.0000	dF: 4 Result: 0.4000 Critical value: N/A Outside Similar: N/A	Score: 119 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					53
Basidiospores					267
Cladosporium					107
Penicillium/Aspergillus types					160
Total					587

Location: 20712001-TM52CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 6%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.8571	dF: 4 Result: 0.6500 Critical value: N/A Outside Similar: N/A	Score: 106 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					160
Cladosporium					53
Penicillium/Aspergillus types					53
Total					266

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

Date of Sampling: 12-18-2007
 Date of Receipt: 12-20-2007
 Date of Report: 12-27-2007

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20712001-TM53CCCL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 3%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.6500 Critical value: 0.8000 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Basidiospores					53
Cladosporium					53
Total					119

Location: 20712001-TM54CCCL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 5%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.6667	dF: 4 Result: 0.7500 Critical value: N/A Outside Similar: N/A	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					160
Total					213

Location: 20712001-TM55CCCL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 6%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.8571	dF: 4 Result: 0.6500 Critical value: N/A Outside Similar: N/A	Score: 106 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					53
Basidiospores					53
Cladosporium					160
Total					266

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

Date of Sampling: 12-18-2007
 Date of Receipt: 12-20-2007
 Date of Report: 12-27-2007

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20712001-TM56CCCL

% 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: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.4714 Critical value: 0.7714 Outside Similar: No	Score: 121 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Chaetomium					13
Cladosporium					107
Smuts, Periconia, Myxomycetes					13
Total					186

Location: 20712001-TM57CCCL

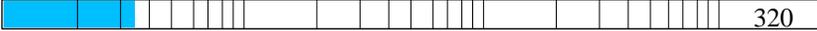
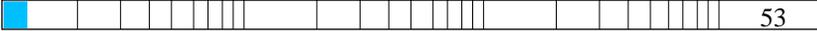
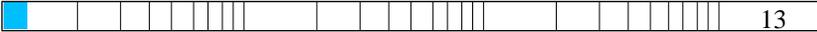
% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 18%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.6667	dF: 4 Result: 0.7500 Critical value: N/A Outside Similar: N/A	Score: 121 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					213
Cladosporium					480
Total					693

Client: Hygiene Technologies International, Inc.:
 Northern California
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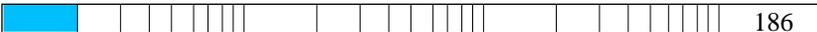
Date of Sampling: 12-18-2007
 Date of Receipt: 12-20-2007
 Date of Report: 12-27-2007

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20712001-TM58CCCL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 12%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.7500	dF: 5 Result: 0.6000 Critical value: 0.8000 Outside Similar: No	Score: 113 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					107
Cladosporium					320
Penicillium/Aspergillus types					53
Stemphylium					13
Total					493

Location: 20712001-TM59CCCL

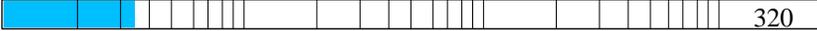
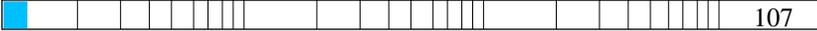
% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 4%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.1286 Critical value: 0.7714 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					107
Other brown					13
Penicillium/Aspergillus types					53
Smuts, Periconia, Myxomycetes					13
Total					186

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20712001-TM60CCCL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 12%	dF: 21 Result: 10.3962 Critical value: 32.6706 Inside Similar: Yes	Result: 0.8571	dF: 4 Result: 1.0000 Critical value: N/A Outside Similar: N/A	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					53
Basidiospores					320
Cladosporium					107
Total					480

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

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

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

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

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

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 Northern California
 C/O: Mr. Wes Frey
 Re: 20712001

Date of Sampling: 12-18-2007
 Date of Receipt: 12-20-2007
 Date of Report: 12-27-2007

MoldSCORE™: Spore Trap Report

Location: 20712001-TM40CL

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††	█				2	107	█	█	█	102
Rusts					ND	< 13	█	█	█	100
Smuts, Periconia, Myxomycetes††	█				1	13	█	█	█	103
Total						120	Final MoldSCORE 103			

Location: 20712001-TM41CL

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††	█				1	53	█	█	█	102
Rusts					ND	< 13	█	█	█	100
Smuts, Periconia, Myxomycetes††					ND	< 13	█	█	█	100
Total						53	Final MoldSCORE 102			

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

Location: 20712001-TM42CL

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
Ulocladium	█				1	13				105
Seldom found growing indoors**										
Ascospores‡‡					ND	< 13				100
Basidiospores‡‡	█				1	53				101
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes‡‡					ND	< 13				100
Total						66				Final MoldSCORE 105

Location: 20712001-TM43CL

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
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‡‡	█				1	13				103
Total						186				Final MoldSCORE 109

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MoldSCORE™: Spore Trap Report

Location: 20712001-TM44CL

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	█				1	13	█	█	█	105
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††	█				2	107	█	█	█	102
Rusts					ND	< 13	█	█	█	100
Smuts, Periconia, Myxomycetes††					ND	< 13	█	█	█	100
Total						120	Final MoldSCORE 105			

Location: 20712001-TM45CL

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	█				1	13	█	█	█	105
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††	█				1	53	█	█	█	100
Rusts					ND	< 13	█	█	█	100
Smuts, Periconia, Myxomycetes††					ND	< 13	█	█	█	100
Total						119	Final MoldSCORE 105			

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MoldSCORE™: Spore Trap Report

Location: 20712001-TM46CL

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††	█				1	53	█	█	█	100
Rusts					ND	< 13	█	█	█	100
Smuts, Periconia, Myxomycetes††					ND	< 13	█	█	█	100
Total						106	Final MoldSCORE 103			

Location: 20712001-TM47CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█	█	█	100
Bipolaris/Drechslera group					ND	< 13	█	█	█	100
Chaetomium					ND	< 13	█	█	█	100
Cladosporium	█				1	53	█	█	█	102
Curvularia					ND	< 13	█	█	█	100
Nigrospora					ND	< 13	█	█	█	100
Other brown	█				1	13	█	█	█	105
Penicillium/Aspergillus types†	█				1	53	█	█	█	105
Stachybotrys					ND	< 13	█	█	█	100
Torula					ND	< 13	█	█	█	100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█	█	█	100
Basidiospores††	█				2	107	█	█	█	100
Rusts					ND	< 13	█	█	█	100
Smuts, Periconia, Myxomycetes††					ND	< 13	█	█	█	100
Total						226	Final MoldSCORE 105			

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MoldSCORE™: Spore Trap Report

Location: 20712001-TM48CL

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	█				1	13	█			105
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††	█				1	53	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						119	Final MoldSCORE 105			

Location: 20712001-TM49CL

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	█			107
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††	█				2	107	█	█		116
Basidiospores††	█	█			6	320	█	█		100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††	█				2	27	█			105
Total						614	Final MoldSCORE 107			

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MoldSCORE™: Spore Trap Report

Location: 20712001-TM50CL

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	█				2	27	█			111
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium	█				2	107	█			104
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‡‡	█				1	53	█			100
Basidiospores‡‡	█	█			5	267	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes‡‡	█				2	27	█			105
Total						481	Final MoldSCORE 116			

Location: 20712001-TM51CL

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	█			104
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†	█				3	160	█			115
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores‡‡	█				1	53	█			100
Basidiospores‡‡	█	█			5	267	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes‡‡					ND	< 13	█			100
Total						587	Final MoldSCORE 115			

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MoldSCORE™: Spore Trap Report

Location: 20712001-TM52CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium	█				1	53				102
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†	█				1	53				104
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores‡‡					ND	< 13				100
Basidiospores‡‡	█				3	160				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes‡‡					ND	< 13				100
Total						266				Final MoldSCORE 104

Location: 20712001-TM53CCCL

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‡‡	█				1	53				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes‡‡					ND	< 13				100
Total						119				Final MoldSCORE 105

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MoldSCORE™: Spore Trap Report

Location: 20712001-TM54CCCL

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††	█				1	53	█	█	█	100
Rusts					ND	< 13	█	█	█	100
Smuts, Periconia, Myxomycetes††					ND	< 13	█	█	█	100
Total						213	Final MoldSCORE 109			

Location: 20712001-TM55CCCL

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††	█				1	53	█	█	█	110
Basidiospores††	█				1	53	█	█	█	100
Rusts					ND	< 13	█	█	█	100
Smuts, Periconia, Myxomycetes††					ND	< 13	█	█	█	100
Total						266	Final MoldSCORE 109			

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MoldSCORE™: Spore Trap Report

Location: 20712001-TM56CCCL

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	█				1	13	█	█		121
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‡‡	█				1	53	█	█		100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes‡‡	█				1	13	█	█		103
Total						186	Final MoldSCORE 121			

Location: 20712001-TM57CCCL

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	█	█		127
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‡‡	█				4	213	█	█		100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes‡‡					ND	< 13	█			100
Total						693	Final MoldSCORE 127			

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MoldSCORE™: Spore Trap Report

Location: 20712001-TM58CCCL

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	■				6	320				118
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†	■				1	53				100
Stachybotrys					ND	< 13				100
Stemphylium	■				1	13				105
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores‡‡					ND	< 13				100
Basidiospores‡‡	■				2	107				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes‡‡					ND	< 13				100
Total						493				Final MoldSCORE 118

Location: 20712001-TM59CCCL

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
Other brown	■				1	13				105
Penicillium/Aspergillus types†	■				1	53				105
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores‡‡					ND	< 13				100
Basidiospores‡‡	■				2	107				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes‡‡	■				1	13				103
Total						186				Final MoldSCORE 108

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MoldSCORE™: Spore Trap Report

Location: 20712001-TM60CCCL

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	█			104
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††	█				1	53	█			101
Basidiospores††	█	█			6	320	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						480	Final MoldSCORE 104			

*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: 20712001

Date of Sampling: 12-18-2007
 Date of Receipt: 12-20-2007
 Date of Report: 12-27-2007

MoldSCORE™: Spore Trap Report

Location: 20712001-TM40CL

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††					2	107				105
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					1	13				103
Total						120				Final MoldSCORE 105

Location: 20712001-TM41CL

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††					1	53				103
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: 20712001

Date of Sampling: 12-18-2007
 Date of Receipt: 12-20-2007
 Date of Report: 12-27-2007

MoldSCORE™: Spore Trap Report

Location: 20712001-TM42CL

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
Ulocladium					1	13				105
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					1	53				102
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						66				Final MoldSCORE 105

Location: 20712001-TM43CL

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				108
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††					1	13				103
Total						186				Final MoldSCORE 108

Client: Hygiene Technologies International, Inc.:
 Northern California
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 Re: 20712001

Date of Sampling: 12-18-2007
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 Date of Report: 12-27-2007

MoldSCORE™: Spore Trap Report

Location: 20712001-TM44CL

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	█				1	13	█	█	█	105
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††	█				2	107	█	█	█	105
Rusts					ND	< 13	█	█	█	100
Smuts, Periconia, Myxomycetes††					ND	< 13	█	█	█	100
Total						120	Final MoldSCORE 105			

Location: 20712001-TM45CL

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	█				1	13	█	█	█	105
Chaetomium					ND	< 13	█	█	█	100
Cladosporium	█				1	53	█	█	█	102
Curvularia					ND	< 13	█	█	█	100
Nigrospora					ND	< 13	█	█	█	100
Penicillium/Aspergillus types†					ND	< 13	█	█	█	100
Stachybotrys					ND	< 13	█	█	█	100
Torula					ND	< 13	█	█	█	100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█	█	█	100
Basidiospores††	█				1	53	█	█	█	100
Rusts					ND	< 13	█	█	█	100
Smuts, Periconia, Myxomycetes††					ND	< 13	█	█	█	100
Total						119	Final MoldSCORE 105			

Client: Hygiene Technologies International, Inc.:
 Northern California
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 Re: 20712001

Date of Sampling: 12-18-2007
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 Date of Report: 12-27-2007

MoldSCORE™: Spore Trap Report

Location: 20712001-TM46CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium	█				1	53	█			102
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††	█				1	53	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						106				Final MoldSCORE 102

Location: 20712001-TM47CL

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	█			100
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Other brown	█				1	13	█			105
Penicillium/Aspergillus types†	█				1	53	█			106
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††	█				2	107	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						226				Final MoldSCORE 106

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

Date of Sampling: 12-18-2007
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MoldSCORE™: Spore Trap Report

Location: 20712001-TM48CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium	█				1	53	█			102
Curvularia	█				1	13	█			105
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††	█				1	53	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						119	Final MoldSCORE 105			

Location: 20712001-TM49CL

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	█			102
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††	█				2	107	█			100
Basidiospores††	█	█			6	320	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††	█				2	27	█			105
Total						614	Final MoldSCORE 105			

Client: Hygiene Technologies International, Inc.:
 Northern California
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 Re: 20712001

Date of Sampling: 12-18-2007
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MoldSCORE™: Spore Trap Report

Location: 20712001-TM50CL

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	█				2	27	█			111
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium	█				2	107	█			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††	█				1	53	█			100
Basidiospores††	█	█			5	267	█			101
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††	█				2	27	█			105
Total						481	Final MoldSCORE 116			

Location: 20712001-TM51CL

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	█			100
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†	█				3	160	█			119
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††	█				1	53	█			100
Basidiospores††	█	█			5	267	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						587	Final MoldSCORE 119			

Client: Hygiene Technologies International, Inc.:
 Northern California
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 Re: 20712001

Date of Sampling: 12-18-2007
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MoldSCORE™: Spore Trap Report

Location: 20712001-TM52CL

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	█			100
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†	█				1	53	█			106
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††	█				3	160	█			102
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						266				Final MoldSCORE 106

Location: 20712001-TM53CCCL

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	█			102
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††	█				1	53	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						119				Final MoldSCORE 105

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 Northern California
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Date of Sampling: 12-18-2007
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MoldSCORE™: Spore Trap Report

Location: 20712001-TM54CCCL

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				107
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores‡‡					ND	< 13				100
Basidiospores‡‡	█				1	53				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes‡‡					ND	< 13				100
Total						213	Final MoldSCORE 107			

Location: 20712001-TM55CCCL

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				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‡‡	█				1	53				102
Basidiospores‡‡	█				1	53				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes‡‡					ND	< 13				100
Total						266	Final MoldSCORE 106			

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

Date of Sampling: 12-18-2007
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MoldSCORE™: Spore Trap Report

Location: 20712001-TM56CCCL

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	█				1	13	█	█		121
Cladosporium	█				2	107	█	█		104
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††	█				1	53	█	█		100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††	█				1	13	█	█		103
Total						186	Final MoldSCORE 121			

Location: 20712001-TM57CCCL

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	█	█		121
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††	█				4	213	█	█		100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						693	Final MoldSCORE 121			

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 Northern California
 C/O: Mr. Wes Frey
 Re: 20712001

Date of Sampling: 12-18-2007
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MoldSCORE™: Spore Trap Report

Location: 20712001-TM58CCCL

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	■	■			6	320				113
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†	■				1	53				103
Stachybotrys					ND	< 13				100
Stemphylium	■				1	13				105
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores‡‡					ND	< 13				100
Basidiospores‡‡	■				2	107				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes‡‡					ND	< 13				100
Total						493	Final MoldSCORE 113			

Location: 20712001-TM59CCCL

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
Other brown	■				1	13				105
Penicillium/Aspergillus types†	■				1	53				106
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores‡‡					ND	< 13				100
Basidiospores‡‡	■				2	107				101
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes‡‡	■				1	13				103
Total						186	Final MoldSCORE 108			

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

Date of Sampling: 12-18-2007
 Date of Receipt: 12-20-2007
 Date of Report: 12-27-2007

MoldSCORE™: Spore Trap Report

Location: 20712001-TM60CCCL

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	█			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††	█				1	53	█			100
Basidiospores††	█	█			6	320	█			107
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						480	Final MoldSCORE 107			

*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: 20712001

Date of Sampling: 12-18-2007
Date of Receipt: 12-20-2007
Date of Report: 12-27-2007

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‡: 1627127-1: Swab sample 20712001-S201CL				
Moderate	Few	1+ <i>Alternaria</i> species (spores, hyphae)	None	Mold growth
Lab ID-Version: 1627128-1: Swab sample 20712001-S202CL				
Moderate	Few	1+ <i>Alternaria</i> species (spores, hyphae)	None	Mold growth
Lab ID-Version: 1627129-1: Swab sample 20712001-S203CL				
Moderate	Few	1+ <i>Alternaria</i> species (spores, hyphae) < 1+ zygomycetes (spores, sporangiophores)	None	Mold growth
Lab ID-Version: 1627130-1: Swab sample 20712001-S204CL				
Moderate	Few	< 1+ <i>Alternaria</i> species (spores, hyphae)	None	Minimal mold growth
Lab ID-Version: 1627131-1: Swab sample 20712001-S205CL				
Moderate	Few	1+ <i>Cladosporium</i> species (spores, hyphae) 1+ <i>Alternaria</i> species (spores, hyphae) < 1+ zygomycetes (spores, sporangiophores)	None	Mold growth
Lab ID-Version: 1627132-1: Swab sample 20712001-S206CL				
Moderate	Few	< 1+ <i>Alternaria</i> species (spores, hyphae)	None	Minimal mold growth
Lab ID-Version: 1627133-1: Swab sample 20712001-S207CL				
Moderate	Few	< 1+ zygomycetes (spores, sporangiophores) < 1+ <i>Aspergillus</i> species (spores, hyphae, conidiophores)	None	Minimal mold growth

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‡: 1627134-1: Swab sample 20712001-S208CL				
Moderate	Few	< 1+ zygomycetes (spores, sporangiophores) < 1+ <i>Ulocladium</i> species (spores, hyphae)	None	Minimal mold growth

‡ 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: 20712001
 EML ID: 371428

Approved by:

Lab Manager
Dr. Kamashwaran Ramanathan

Dates of Analysis:
Culturable air fungi (Incl. Asp spp.): 12-26-2007

Project SOPs: Culturable air fungi (Incl. Asp spp.) (I100002)

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: 20712001

Date of Sampling: 12-18-2007
Date of Receipt: 12-20-2007
Date of Report: 12-26-2007

CULTURABLE AIR FUNGI REPORT

Location:	20712001-VM01out		20712001-VM02CL		20712001-VM03CL		20712001-VM04CL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1627116-1		1627117-1		1627118-1		1627119-1	
	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	2	35						
Basidiomycetes								
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	49	919						
Curvularia								
Epicoccum								
Fusarium								
Mucor								
Non-sporulating fungi	7	124	2	35				
Paecilomyces								
Penicillium	3	53	1	18				
Phoma								
Rhizopus								
Stachybotrys chartarum								
Ulocladium								
Yeasts	60	1,150	1	18	1	18	2	35
Positive Hole	400		400		400		400	
Sample volume (liters)	56.6		56.6		56.6		56.6	
TOTAL CFU*/M3		2,281		71		18		35

* 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: 20712001

Date of Sampling: 12-18-2007
Date of Receipt: 12-20-2007
Date of Report: 12-26-2007

CULTURABLE AIR FUNGI REPORT

Location:	20712001-VM05CL		20712001-VM06CL		20712001-VM07CL		20712001-VM08CL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1627120-1		1627121-1		1627122-1		1627123-1	
	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					1	18		
Curvularia								
Epicoccum								
Fusarium								
Mucor								
Non-sporulating fungi	1	18					1	18
Paecilomyces								
Penicillium			2	35				
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		18		35		36		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: 20712001

Date of Sampling: 12-18-2007
Date of Receipt: 12-20-2007
Date of Report: 12-26-2007

CULTURABLE AIR FUNGI REPORT

Location:	20712001-VM09CL		20712001-VM10CL		20712001-VM11outCL	
Comments (see below)	None		None		None	
Lab ID-Version‡:	1627124-1		1627125-1		1627126-1	
	raw ct.	cfu*/m3	raw ct.	cfu*/m3	raw ct.	cfu*/m3
Acremonium					1	18
Alternaria						
Aspergillus flavus						
Aspergillus fumigatus						
Aspergillus nidulans						
Aspergillus niger						
Aspergillus ochraceus						
Aspergillus versicolor						
Aureobasidium						
Basidiomycetes						
Bipolaris/Drechslera group			1	18		
Botrytis						
Chaetomium						
Cladosporium					23	424
Curvularia						
Epicoccum						
Fusarium					1	18
Mucor	1	18				
Non-sporulating fungi			1	18	4	71
Paecilomyces						
Penicillium			2	35	5	88
Phoma						
Rhizopus						
Stachybotrys chartarum						
Ulocladium						
Yeasts			3	53	73	1,430
Positive Hole	400		400		400	
Sample volume (liters)	56.6		56.6		56.6	
TOTAL CFU*/M3		18		124		2,049

* 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.



HYGIENETECH

Hygiene Technologies International, Inc.

3625 Del Amo Boulevard, Suite 1
Torrance, California 90503-16
(310) 370-83
(310) 370-2474 Fx
www.hygienetech.com

Request For Analysis

Project Number/Purchase Order: 20712001 Date Submitted: 12/19/07
 Project Contact: Wes Frey Turnaround Required: Normal
 Lab Destination: EM Lab Pak Lab Contact: _____

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
20712001 - S201CL	N/A	Swab	Surface Fungi ID (qualitative)
-S202CL			
-S203CL			
-S204CL			
-S205CL			
-S206CL			
-S207CL			
-S208CL	↓	↓	↓
-VM01OUT	56.6 L	MGA	Viable Fungi ID
-VM02CL			
-VM03CL			
-VM04CL			
-VM05CL			
-VM06CL			
-VM07CL			
↓ -VM08CL	↓	↓	↓

Special Instructions: _____

1. Sampled by: [Signature] ^(2/18/07) Received by: [Signature] 12/20 9-30am
2. Relinquished by: _____ Received by: _____
3. Relinquished by: _____ Received by: _____

Please include signature, date, and time

Lab Use Only:

31228



HYGIENETECH

Hygiene Technologies International, Inc.

3825 Del Amo Boulevard, Suite 11
Torrance, California 90503-16
(310) 370-837
(310) 370-2474 FAX
www.hygienetech.co

Request For Analysis

Project Number/Purchase Order: 25712001 Date Submitted: 12/19/07
 Project Contact: Wes Frey Turnaround Required: Normal
 Lab Destination: EM Lab Park Lab Contact: _____

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
25712001-VM09CL	56.6L	MEA	SA Viable Fungi ID
-VM10CL	↓	↓	↓
-VM1104CL	↓	↓	↓
-TM3804CL	75L	Allergenco D	Total Fungi ID
-TM39CL	↓	↓	↓
-TM40CL	↓	↓	↓
-TM41CL	↓	↓	↓
-TM42CL	↓	↓	↓
-TM43CL	↓	↓	↓
-TM44CL	↓	↓	↓
-TM45CL	↓	↓	↓
-TM46CL	↓	↓	↓
-TM47CL	↓	↓	↓
-TM48CL	↓	↓	↓
-TM49CL	↓	↓	↓
↓ -TM50CL	↓	↓	↓

Special Instructions: _____

1. Sampled by: Ch L Co ^{12/18/07} ₁₆₃₀ Received by: [Signature] _{12/20 9:30AM}
 2. Relinquished by: _____ Received by: _____
 3. Relinquished by: _____ Received by: _____
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HYGIENETECH

Hygiene Technologies International, Inc.

3625 Del Amo Boulevard, Suite 1
Torrance, California 90503-16
(310) 370-83
(310) 370-2474 F.
www.hygienetech.com

Request For Analysis

Project Number/Purchase Order: 20712001 Date Submitted: 12/19/07
 Project Contact: Wes Frey Turnaround Required: Normal
 Lab Destination: EM Lab Pak Lab Contact: _____

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
20712001 - TM51CL	75 L	Allergenza D	Total Fungi ID
-TM52CL			
-TM53CCCL			
-TM54CCCL			
-TM55CCCL			
-TM56CCCL			
-TM57CCCL			
-TM58CCCL			
-TM59CCCL			
-TM60CCCL			
-TM61CCCL			

Special Instructions: _____

1. Sampled by: [Signature] ^{12/19/07} 16:50 Received by: [Signature] 12/19/07 9:30 AM
 2. Relinquished by: _____ Received by: _____
 3. Relinquished by: _____ Received by: _____
 Please include signature, date, and time

Lab Use Only:

37143E



EMLab P&K

Report for:

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

Regarding: Project: 20712001
EML ID: 372669

Approved by:

Lab Manager
Dr. Kamashwaran Ramanathan

Dates of Analysis:

Direct microscopic exam (Qualitative): 12-31-2007

Project SOPs: Direct microscopic exam (Qualitative) (I100006)

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.

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Document Number: 200091 - Revision Number: 5

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

Date of Sampling: 12-20-2007
 Date of Receipt: 12-26-2007
 Date of Report: 12-31-2007

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‡: 1632454-1: Tape sample 20712001-TL201CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1632455-1: Tape sample 20712001-TL202CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1632456-1: Tape sample 20712001-TL203CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1632457-1: Tape sample 20712001-TL204CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1632458-1: Tape sample 20712001-TL205CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1632459-1: Tape sample 20712001-TL206CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1632460-1: Tape sample 20712001-TL207CL				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 1632461-1: Tape sample 20712001-TL208CL				
Moderate	Few	None	None	Normal trapping
Lab ID-Version: 1632462-1: Tape sample 20712001-TL209CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1632463-1: Tape sample 20712001-TL210CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1632464-1: Tape sample 20712001-TL211CL				
Light	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‡: 1632465-1: Tape sample 20712001-TL212CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1632466-1: Tape sample 20712001-TL214CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1632467-1: Tape sample 20712001-TL214CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1632468-1: Tape sample 20712001-TL215CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1632469-1: Tape sample 20712001-TL216CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1632470-1: Tape sample 20712001-TL217CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1632471-1: Tape sample 20712001-TL218CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1632472-1: Tape sample 20712001-TL219CL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1632473-1: Tape sample 20712001-TL220CL				
Light	Very few	None	None	Normal trapping

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



HYGIENETECH

Hygiene Technologies International, Inc.

3625 Del Amo Boulevard, Suite 1E
Torrance, California 90503-164
(310) 370-897
(310) 370-2474 FAX
www.hygienetech.co

Request For Analysis

Project Number/Purchase Order: 20712001 Date Submitted: 12/21/07
 Project Contact: Wes Frey Turnaround Required: Normal
 Lab Destination: EM Lab Peck Lab Contact: _____

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
20712001 - TL 201CL	N/A	TAPE	Surface Fungi ID (Qualitative)
-TL 202CL			
-TL 203CL			
-TL 204CL			
-TL 205CL			
-TL 206CL			
-TL 207CL			
-TL 208CL			
-TL 209CL			
-TL 210CL			
-TL 211CL			
-TL 212CL			
-TL 213CL			
-TL 214CL			
-TL 215CL			
-TL 216CL			

Special Instructions: _____

1. Sampled by: [Signature] ^{12/20/07} Received by: [Signature] 12/26/07
 2. Relinquished by: _____ Received by: _____
 3. Relinquished by: _____ Received by: _____
 Please include signature, date, and time

Lab Use Only:

299015

