



HYGIENETECH

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July 25, 2008

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

Document No. 20802001.13

Attention: David Gau

Regarding: Limited Indoor Air Quality Survey
17TH Floor

Dear Mr. Gau:

On various dates in February and March of 2008, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted a limited indoor air quality survey on the 17TH 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, with a clear emphasis on establishing fungal growth exposure potential data. I have enclosed our report, which included general observations, samples 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 – 17TH 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**

JULY 25, 2008



1.0 BACKGROUND

On various dates in February and March of 2008, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted a limited indoor air quality survey on the 17TH 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 17TH 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 17TH Floor included, but were not limited to, metal window frames; painted gypsum board and/or metal window sills; metal doorjambs 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. However, be advised that visible accumulation of debris, dust, and other particulates was observed on the reverse side of all sampled HVAC supply air registers.

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 20802001-127 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 Zefon brand Bio-Pumps™ equipped with Allergenco-D™ cassettes. Such samples were collected at various 17TH Floor locations and samples were also collected outdoors on the applicable survey date for comparison purposes. The resultant data, which are presented in spores per cubic meter of air (spores/M³), appear in Table 20802001-122.

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 purpose. 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 20802001-123.

3.3 Surface Fungi 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 20802001-124.

3.4 Airborne Fibrous Dust

Area air samples for fibrous dust were collected at stationary locations on 25-millimeter diameter, 0.8-micrometer pore size, mixed cellulose ester filters. The samples were analyzed by phase contrast microscopy (PCM) in accordance with the NIOSH Method 7400. These data are presented in fibers per cubic centimeter (f/cc) of air in Table 20802001-125.

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 20802001-126.

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 20802001-127.



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 17TH 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 the 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, and/or *Epicoccum*, 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*, colorless spores typical of *Penicillium* and *Aspergillus* species, rust, smuts, and/or *Stemphylium*. 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 389 and 848 CFU/M³ in the two samples collected, with *Cladosporium* predominating in both. Indoors, low levels of common fungi were found including *Aspergillus niger*, *Aureobasidium*, *Cladosporium*, and/or *Penicillium*. Again, the data recorded were unremarkable and are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.

4.3 Surface Fungal Growth Potentials

The surface assessment data involving the samples collected from various cubicle partitions throughout the 17TH 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 fungal growth involving *Alternaria*, *Cladosporium*, and/or *Penicillium*. 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 above the laboratory detection limit of 0.004 f/cc or were detected at levels of 0.004 and 0.005 f/cc. Because the samples were collected at stationary locations at approximate breathing zone height, the resultant data are expected to represent building occupant *exposure potentials* for those persons working in or passing through the areas monitored. These data, which are expected to represent employee *exposure potentials* to fibers of various types, including man-made and natural mineral fibers, cellulose (paper or wood composition), gypsum, and other fibrous dusts common in the environment, are well below the current Cal-OSHA 8-hour TWA PEL for asbestos fibers of 0.1 f/cc, the most restrictive exposure limit for fibrous dusts.

4.5 Airborne Total Dust

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

The data recorded in the surveyed areas showed that airborne total dust was not detected at or above the respective laboratory analytical detection limits of 0.19 or 0.20 mg/M³. Because the samples were collected at stationary locations at approximate breathing zone height, the resultant data are expected to represent building occupant *exposure potentials* for those persons working in or passing through the areas monitored. These data are well below the State of California, 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



4.0 DISCUSSION (CONTINUED)

4.5 Airborne Total Dust (Continued)

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

4.6 Airborne Microbial Volatile Organic Compounds

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

The airborne MVOC data indicated the presence of 1-butanol at levels ranging from 373 ng/M³ to 536 ng/M³, 2-hexanone at levels ranging from 133 ng/m³ to 162 ng/m³, and 2-heptanone at levels ranging from 177 ng/m³ to 230 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 17TH Floor was most likely not fungal growth related and attributable to 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 instrument detection limit of 0.1 ppm. Because these data were recorded at stationary locations at approximate breathing zone height, the results are expected to represent building occupant *exposure* potentials for those persons occupying or passing through the areas monitored. These data were well below the surrogate Cal-OSHA PELs that are often used for comparative purposes regarding VOC exposures, such as those for gasoline, hexane, and varnish makers and painters (VM&P) naphtha.

4.8 Airborne Ozone

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



4.0 DISCUSSION (CONTINUED)

4.9 Airborne Carbon Dioxide

The direct-reading results indicated that CO₂ was detected at levels ranging from 522 to 815 ppm on the 17TH 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 unhealthy exposure to CO₂; rather, they are thought to be the result of exposure to other common indoor air pollutants which, if not exhausted and/or diluted, can accumulate over time.

4.10 Air Temperature and Relative Humidity

Air temperatures ranged between 74.53 and 78.01 degrees Fahrenheit (°F) on April 2, 2008. 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 within the comfort range recommended for the summer months.

Relative humidity data were recorded indoors at levels ranging from 23.9 to 27.9 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*, *Cladosporium*, and/or *Penicillium* 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. 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 17TH Floor.



5.0 CONCLUSIONS (CONTINUED)

- 5.3 The airborne total and fibrous dust, VOC, and O₃ recorded during the survey were unremarkable. Collectively, the data were well below applicable Cal-OSHA 8-hour TWA PELs and/or other occupational, non-occupational, ASHRAE, or foreign guidelines. The data are not expected to represent conditions that pose a measurable health risk to the building occupants.
- 5.4 The airborne MVOC data indicated the presence of 1-butanol at levels ranging from 373 ng/M³ to 536 ng/M³, 2-hexanone at levels ranging from 133 ng/m³ to 162 ng/m³, and 2-heptanone at levels ranging from 177 ng/m³ to 230 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 17TH Floor was most likely not fungal growth related and attributable to 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 74.53 and 78.01 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 within the comfort range recommended for the summer months. Relative humidity data were recorded indoors at levels ranging from 23.9 to 27.9 percent, levels that 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.
- 5.6 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

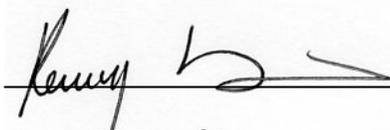
All such recommendations are based strictly on the assessment information and analytical data that were available to HygieneTech at the time this report was prepared. Be advised that, in order to establish data that accurately reflects all the fungal growth sites on the 17TH Floor, additional assessment 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 registers on the 17TH Floor should be performed to preclude the build-up of dust and debris, which may potentially contribute to fungal growth on those surfaces.
- 6.3 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 17TH 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: July 25, 2008



Brian P. Daly, CIH, PE
President

Date: July 25, 2008

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 20802001-122
AIRBORNE TOTAL FUNGI RESULTS
17TH FLOOR
SACRAMENTO, CALIFORNIA
FEBRUARY 19 AND 21, 2008

Page 1

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

SAMPLE NUMBER	20802001-TM116CCJL	20802001-TM117CCJL	20802001-TM118CCJL	20802001-TM119CCJL
SAMPLING LOCATION/ACTIVITIES	Room 1707; area between Column L22 and M22; Cubicle 72; within ceiling plenum/Sampling activities only	Room 1707; Column K22; Cubicle 23; northwestern corner/Sampling activities only	Room 1707; about six feet south of column K20; within ceiling plenum/Sampling activities only	Room 1706; about center; within ceiling plenum/Sampling activities only
DATE	02-19-08	02-19-08	02-19-08	02-19-08
START/STOP	9:48:00/9:53:00	10:00:00/10:05:00	10:09:00/10:14:00	10:21:00/10:26:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria			13	
Arthrinium				
Ascospores				53
Aureobasidium				
Basidiospores	53		53	53
Bipolaris/Drechslera group				13
Botrytis				
Chaetomium				
Cladosporium	320	480	107	53
Curvularia				13
Epicoccum				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types	373			
Pithomyces				
Rusts		13	13	
Smuts (Periconia, Myxomycetes)		13		13
Stachybotrys				
Stemphylium				13
Torula				
Ulocladium				
Hyphal fragments	13	<13	13	<13
Background particulates*	2+	2+	2+	2+
TOTAL**	746	506	186	211

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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TABLE 20802001-122
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17TH FLOOR
SACRAMENTO, CALIFORNIA
FEBRUARY 19 AND 21, 2008

Page 2

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

SAMPLE NUMBER	20802001-TM120CCJL	20802001-TM121CCJL	20802001- TM122CCJL	20802001-TM123CCJL
SAMPLING LOCATION/ACTIVITIES	Room 1707; Column L18 area; Cubicle 3; northwestern corner ceiling; within ceiling plenum/Sampling activities only	Room 1723; Column N18 area; Cubicle 119; about center; within ceiling plenum/ Sampling activities only	Room 1713; Column N20 area; print station; southwestern corner within ceiling plenum/Sampling activities only	Room 1707; Column N22 area; Cubicle 83; northwestern corner; within ceiling plenum/Sampling activities only
DATE	02-19-08	02-19-08	02-19-08	02-19-08
START/STOP	10:36:00/10:41:00	10:56:00/11:01:00	13:30:00/13:35:00	13:41:00/13:46:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores				
Aureobasidium				
Basidiospores	53			
Bipolaris/Drechslera group				
Botrytis				
Chaetomium	13			
Cladosporium	213	53	213	160
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				53
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	53	80		
Stachybotrys				
Torula				
Ulocladium				
Unidentified mitosporic fungi				
Hyphal fragments	<13	27	<13	13
Background particulates*	2+	2+	2+	2+
TOTAL**	332	133	213	213

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 20802001-122
AIRBORNE TOTAL FUNGI RESULTS
17TH FLOOR
SACRAMENTO, CALIFORNIA
FEBRUARY 19 AND 21, 2008

Page 3

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

SAMPLE NUMBER	20802001-TM19OUT	20802001-TM37ME	20802001-TM38ME	20802001-TM39ME
SAMPLING LOCATION/ACTIVITIES	Outdoor; about 50 feet east of building; approximately five feet above ground/Normal outdoor activities	Room 1707; Column N22 area; about five feet east of Cubicle 69; approximately five feet above floor/Normal office activities	Room 1707; Column K21 area; northwestern corner of Cubicle 46; approximately five feet above floor/Normal office activities	Room 1707; Column K20 area; Cubicle 54; about center; approximately five feet above floor/Normal office activities
DATE	02-21-08	02-21-08	02-21-08	02-21-08
START/STOP	10:30:00/10:35:00	14:50:00/14:55:00	15:00/15:05:00	15:07:00/15:12:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores	853			
Aureobasidium				
Basidiospores	1,600	53		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	960	53	53	53
Curvularia				
Epicoccum	27			
Nigrospora				
Oidium				
Penicillium/Aspergillus types	160		53	
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	13
Background particulates*	1+	1+	1+	1+
TOTAL**	3,600	106	106	53

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

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TABLE 20802001-122
AIRBORNE TOTAL FUNGI RESULTS
17TH FLOOR
SACRAMENTO, CALIFORNIA
FEBRUARY 19 AND 21, 2008

Page 4

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

SAMPLE NUMBER	20802001-TM40ME	20802001-TM41ME	20802001-TM42ME	20802001-TM43ME
SAMPLING LOCATION/ACTIVITIES	Room 1707; Column K21 area; Cubicle 26; about center; approximately five feet above floor/Normal office activities	Room 1707; area between column K19 and K21 Cubicle 16; about center; approximately five feet above floor/Normal office activities	Room 1707; Column K18 area; about ten feet north of Cubicle 38; approximately five feet above floor/Normal office activities	Room 1707; Column K18 area; about ten feet north of Cubicle 012; approximately five feet above floor/Normal office activities
DATE	02-21-08	02-21-08	02-21-08	02-21-08
START/STOP	15:20:00/15:25:00	15:27:00/15:32:00	15:33:00/15:38:00	15:40:00/15:45:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores				
Aureobasidium				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium			53	
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Torula				
Ulocladium				
Unidentified mitosporic fungi				
Hyphal fragments	<13	<13	<13	<13
Background particulates*	1+	1+	1+	1+
TOTAL**	<13	<13	53	<13

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

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 20802001-122
AIRBORNE TOTAL FUNGI RESULTS
17TH FLOOR
SACRAMENTO, CALIFORNIA
FEBRUARY 19 AND 21, 2008

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

SAMPLE NUMBER	20802001-TM44ME	20802001-TM45ME	20802001-TM46ME	20802001-TM47ME
SAMPLING LOCATION/ACTIVITIES	Room 1707; Column L18 area; southwestern corner of Cubicle 001; approximately five feet above floor/Normal office activities	Room 1723; Column N18 area; about five feet north of Cubicle 123; approximately five feet above floor/Normal office activities	Room 1720; Column N19 area; Cubicle 113; about center; approximately five feet above floor/Normal office activities	Room 1720; Column N19 area; about 15 feet north of Cubicle 110; approximately five feet above floor/Normal office activities
DATE	02-21-08	02-21-08	02-21-08	02-21-08
START/STOP	15:50:00/15:55:00	16:00:00/16:05:00	16:05:00/16:10:00	16:10:00/16:15:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores				107
Aureobasidium				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		53		
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Torula				
Ulocladium				
Unidentified mitosporic fungi				
Hyphal fragments	13	<13	<13	<13
Background particulates*	+1	1+	1+	1+
TOTAL**	<13	53	<13	107

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

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



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

TABLE 20802001-122
AIRBORNE TOTAL FUNGI RESULTS
17TH FLOOR
SACRAMENTO, CALIFORNIA
FEBRUARY 19 AND 21, 2008

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

SAMPLE NUMBER	20802001-TM48ME	20802001-TM49ME	20802001-TM36OUTME	20802001-TM50ME
SAMPLING LOCATION/ACTIVITIES	Room 1713; Column N20 area; Cubicle 107; about center; approximately five feet above floor/Normal office activities	Room 1713; Column N21 area; Cubicle 100; about center; approximately five feet above floor/Normal office activities	Outdoor; about 50 feet east of building; approximately five feet above ground/Normal outdoor activities	Room 1702; Column N22 area; Cubicle 87; about center; approximately five feet above floor/Normal office activities
DATE	02-21-08	02-21-08	02-21-08	02-21-08
START/STOP	16:20:00/16:25:00	16:30:00/16:35:00	16:30:00/16:35:00	16:45:00/16:50:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores			480	
Aureobasidium				
Basidiospores		53	853	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53	107	267	53
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types			160	
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	13			
Stachybotrys				
Torula				
Ulocladium				
Unidentified mitosporic fungi				
Hyphal fragments	<13	<13	80	<13
Background particulates*	1+	1+	1+	1+
TOTAL**	66	160	1,760	53

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

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CLIENT: California State Board of Equalization
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TABLE 20802001-122
AIRBORNE TOTAL FUNGI RESULTS
17TH FLOOR
SACRAMENTO, CALIFORNIA
FEBRUARY 19 AND 21, 2008

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

SAMPLE NUMBER	20802001-TM51ME	20802001-TM52ME		
SAMPLING LOCATION/ACTIVITIES	Room 1702; Column N22 area; Cubicle 78; about center; approximately five feet above floor/Normal office activities	Room 1707; area between L22 and M22; Cubicle 64; about center; approximately five feet above floor/Normal office activities	This column intentionally left blank	This column intentionally left blank
DATE	02-21-08	02-21-08		
START/STOP	16:51:00/16:56:00	17:05:00/17:10:00		
SAMPLE TIME	5 minutes	5 minutes		
Alternaria				
Arthrinium				
Ascospores				
Aureobasidium				
Basidiospores	107	53		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		53		
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Torula				
Ulocladium				
Unidentified mitosporic fungi				
Hyphal fragments	<13	<13		
Background particulates*	1+	1+		
TOTAL**	107	106		

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

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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CLIENT: California State Board of Equalization
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TABLE 20802001-123
AIRBORNE VIABLE FUNGI RESULTS
17th FLOOR
SACRAMENTO, CALIFORNIA
FEBRUARY 21, 2008

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

SAMPLE NUMBER	20802001-VM01OUTME	20802001-VM11ME	20802001-VM12ME	20802001.VM13ME
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 25 feet east of building; approximately five feet above ground/Normal outdoor activities	Room 1707; Colum N22 area; about five feet east of Cubicle 69; approximately five feet above floor/Normal office activities	Room 1707; Column N20 area; Cubicle 42; about center; approximately five feet above floor/Normal office activities	Room 1707; Column K18 area; about ten feet north of Cubicle 12; approximately five feet above floor/Normal office activities
START/STOP	10:37:00/10:39:00	14:57:00/14:59:00	15:14:00/15:17:00	15:46:00/15:48:00
SAMPLE TIME	2 minutes	2 minutes	2 minutes	2 minutes
Acremonium				
Alternaria				
Aspergillus flavus				
Aspergillus niger		71		18
Aspergillus other				
Aspergillus versicolor				
Aureobasidium	18			
Beauveria				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	212	18		
Curvularia				
Epicoccum				
Nigrospora				
Memnoniella				
Myrothecium				
Non-sporulating fungi	53			
Paecilomyces				
Penicillium		35		
Phoma/coelomycetes				
Sporobolomyces				
Stachybotrys chartarum (atra)				
Torula herbarum				
Trichoderma				
Ulocladium				
Yeasts	106		18	18
TOTAL	389	124	18	36

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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CLIENT: California State Board of Equalization
450 N Street
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TABLE 20802001-123
AIRBORNE VIABLE FUNGI RESULTS
17th FLOOR
SACRAMENTO, CALIFORNIA
FEBRUARY 21, 2008

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

SAMPLE NUMBER	20802001-VM14ME	20802001-VM15ME	20802001-VM16ME	20802001-VM17ME
SAMPLING LOCATION/ACTIVITIES	Room 1707; southwestern corner of Cubicle 001; approximately five feet above floor/Normal office activities	Room 1723; Column N18 area; about five feet north of Cubicle 123; approximately five feet above floor/Normal office activities	Room 1713; About center; Cubicle 100; approximately five feet above floor/Normal office activities	Room 1707; Cubicle 78; about center; approximately five feet above floor/Normal office activities
START/STOP	15:56:00/15:58:00	16:06:00/16:08:00	16:37:00/16:39:00	16:57:00/16:59:00
SAMPLE TIME	2 minutes	2 minutes	2 minutes	2 minutes
Acremonium				
Alternaria				
Aspergillus flavus				
Aspergillus niger		53		
Aspergillus other				
Aspergillus versicolor				
Aureobasidium				
Beauveria				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	18			18
Curvularia				
Epicoccum				
Fusarium				
Memnoniella				
Myrothecium				
Non-sporulating fungi				
Others				
Paecilomyces				
Penicillium				
Phoma/coelomycetes				
Sporobolomyces				
Stachybotrys chartarum (atra)				
Torula herbarum				
Trichoderma				
Ulocladium				
Yeasts				
TOTAL	18	53	<18	18

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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

TABLE 20802001-123
AIRBORNE VIABLE FUNGI RESULTS
17th FLOOR
SACRAMENTO, CALIFORNIA
FEBRUARY 21, 2008

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

SAMPLE NUMBER	20802001-VM18ME	20802001-VM10OUTME		
SAMPLING LOCATION/ACTIVITIES	Room 1707; Cubicle 64; about center; approximately five feet above floor/Normal office activities	Outdoors; about 20 feet east of building; approximately five feet above ground/Normal outdoor activities	This column intentionally left blank	This column intentionally left blank
START/STOP	17:11:00/17:16:00	17:55:00/17:57:00		
SAMPLE TIME	2 minutes	2 minutes		
Acremonium				
Alternaria				
Aspergillus flavus				
Aspergillus niger				
Aspergillus other				
Aspergillus versicolor				
Aureobasidium				
Beauveria				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		777		
Curvularia				
Epicoccum		18		
Fusarium				
Memnoniella				
Myrothecium				
Non-sporulating fungi		53		
Others				
Paecilomyces				
Penicillium				
Phoma/coelomycetes				
Sporobolomyces				
Stachybotrys chartarum (atra)				
Torula herbarum				
Trichoderma				
Ulocladium				
Yeasts				
TOTAL	<18	848		

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



TABLE 20802001-124
SURFACE FUNGAL GROWTH POTENTIALS
17TH FLOOR
SACRAMENTO, CALIFORNIA
FEBRUARY 15 AND 19, 2008

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

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DATE	SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	MISCELLANEOUS FUNGI/POLLEN*	GENERAL IMPRESSION
02-15-08	20802001-TL41JL	Room 1707; area between Columns L18 and M18; Cubicle 7; southern cubicle partition; about center; from top horizontal surface	Scant	Very few	None	None	Background
02-15-08	20802001-TL42JL	Room 1707; Column M18 area; Cubicle 130; western cubicle partition; about center; from top horizontal surface	Scant	Very few	None	None	Background
02-15-08	20802001-TL43JL	Room 1707; Column K18 area; Cubicle 5; western cubicle partition ; about center; from top horizontal surface	Scant	Very few	None	None	Background
02-15-08	20802001-TL44JL	Room 1707; Column K18 area; Cubicle 37; southern cubicle partition; about center; from top horizontal surface	Scant	Very few	None	None	Background
02-15-08	20802001-TL45JL	Room 1707; Column K19 area; Cubicle 15; northern cubicle partition; about center; from top horizontal surface	Scant	Very few	None	None	Background
02-15-08	20802001-TL46JL	Room 1707; Column K20 area; Cubicle 30; western cubicle partition; about center; from top horizontal surface	Scant	Very few	None	None	Background
02-15-08	20802001-TL47JL	Room 1707; Column K19 area; Cubicle 51; southern cubicle partition; about center; from top horizontal surface	Scant	Very few	None	None	Background
02-15-08	20802001-TL48JL	Room 1707; Column K21 area; Cubicle 46; western cubicle partition; about center; from top horizontal surface	Scant	Very few	None	None	Background
02-15-08	20802001-TL49JL	Room 1707; Column K22 area; Cubicle 24; western cubicle partition; about center; from top horizontal surface	Scant	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.

APPENDIX A



TABLE 20802001-124
SURFACE FUNGAL GROWTH POTENTIALS
17TH FLOOR
SACRAMENTO, CALIFORNIA
FEBRUARY 15 AND 19, 2008

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

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DATE	SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	MISCELLANEOUS FUNGI/POLLEN*	GENERAL IMPRESSION
02-15-08	20802001-TL50JL	Room 1707; Column K22 area; Cubicle 69; eastern cubicle partition; about center; from top horizontal surface	Scant	Very few	None	None	Background
02-15-08	20802001-TL51JL	Room 1707; Column L22; Cubicle 62; southern cubicle partition; about center; from top horizontal surface	Scant	Very few	None	None	Background
02-15-08	20802001-TL52JL	Room 1707; area between L22 and M22; Cubicle 73; eastern cubicle partition; about center; from top horizontal surface	Scant	Very few	None	None	Background
02-15-08	20802001-TL53JL	Room 1707; Column N22 area; Cubicle 78; northern cubicle partition; about center; from top horizontal surface	Scant	Very few	None	None	Background
02-15-08	20802001-TL54JL	Room 1707; Column N22; Cubicle 93; northern cubicle partition; about center; from top horizontal surface	Scant	Very few	None	None	Background
02-15-08	20802001-TL55JL	Room 1707; Column N21 area; Cubicle 85; eastern cubicle partition; about center; from top horizontal surface	Scant	Very few	None	None	Background
02-15-08	20802001-TL56JL	Room 1713; Column N20 area; Cubicle 100; northern cubicle partition; about center; from top horizontal surface	Scant	Very few	None	None	Background
02-15-08	20802001-TL57JL	Room 1713; Column N20 area; Cubicle 104; northern cubicle partition; about center; from top horizontal surface	Scant	Very few	None	None	Background
02-15-08	20802001-TL58JL	Room 1723; Column N18 area; Cubicle 125; northern cubicle partition; about center; from top horizontal surface	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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TABLE 20802001-124
SURFACE FUNGAL GROWTH POTENTIALS
17TH FLOOR
SACRAMENTO, CALIFORNIA
FEBRUARY 15 AND 19, 2008

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

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DATE	SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	MISCELLANEOUS FUNGI/POLLEN*	GENERAL IMPRESSION
02-15-08	20802001-TL59JL	Room 1723; Column N18 area; Cubicle 118; southern cubicle partition; about center; from top horizontal surface	Scant	Very few	None	None	Background
02-19-08	20802001-S17JL	Room 1707; area between Column L22 and M22; Cubicle 72; ceiling; from reverse side of HVAC supply air register	Moderate	Very few	<1+ <i>Cladosporium</i> species (spores, hyphae) <1+ <i>Alternaria</i> species (spores, hyphae)	A few <i>Chaetomium</i> spores detected	Minimal fungal growth
02-19-08	20802001-S18JL	Room 1707; Column K22 area; Cubicle 23; northwestern corner; ceiling; from reverse side of HVAC supply air register	Moderate	Very few	<1+ <i>Cladosporium</i> species (spores, hyphae) <1+ <i>Penicillium</i> species (spores, hyphae, conidiophores) <1+ <i>Alternaria</i> species (spores, hyphae)	None	Minimal fungal growth
02-19-08	20802001-S19JL	Room 1707; about five feet south of Column K20; ceiling; from reverse side of HVAC supply air register	Moderate	Very few	<1+ <i>Penicillium</i> species (spores, hyphae, conidiophores) <1+ <i>Cladosporium</i> species (spores, hyphae) <1+ <i>Alternaria</i> species (spores, hyphae)	Very few <i>Chaetomium</i> spores detected	Minimal fungal growth
02-19-08	20802001-S20JL	Room 1706; ceiling; about center; from reverse side of HVAC supply air register	Moderate	Very few	<1+ <i>Cladosporium</i> species (spores, hyphae) <1+ <i>Alternaria</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.

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TABLE 20802001-124
SURFACE FUNGAL GROWTH POTENTIALS
17TH FLOOR
SACRAMENTO, CALIFORNIA
FEBRUARY 15 AND 19, 2008

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450 N Street
Sacramento, California 94279

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DATE	SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	MISCELLANEOUS FUNGI/POLLEN*	GENERAL IMPRESSION
02-19-08	20802001-S21JL	Room 1707; Column L18 area; Cubicle 3; northwestern corner ceiling; from reverse side of HVAC supply air register	Moderate	Very few	<1+ <i>Cladosporium</i> species (spores, hyphae)	None	Minimal fungal growth
02-19-08	20802001-S22JL	Room 1723; Colum N18 area; Cubicle 119; ceiling; about center; from reverse side of HVAC supply air register	Moderate	Very few	1+ <i>Penicillium</i> species (spores, hyphae, conidiophores) <1+ <i>Cladosporium</i> species (spores, hyphae)	None	Fungal growth
02-19-08	20802001-S23JL	Room 1713; Column N20; print station; southwestern corner; from reverse side of HVAC supply air register	Moderate	Very few	<1+ <i>Cladosporium</i> species (spores, hyphae) <1+ <i>Alternaria</i> species (spores, hyphae)	None	Minimal fungal growth
02-19-08	20802001-S24JL	Room 1707; Column N22 area; Cubicle 83; northwestern corner; from reverse side of HVAC supply air register	Moderate	Very few	1+ <i>Penicillium</i> species (spores, hyphae, conidiophores) 1+ <i>Aspergillus</i> species (spores, hyphae, conidiophores) <1+ <i>Cladosporium</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.

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APPENDIX A



TABLE 20802001-125
AIRBORNE FIBERS RESULTS
17TH FLOOR
SACRAMENTO, CALIFORNIA
MARCH 6, 2008

NAME/ REFERENCE	LOCATION/ ACTIVITIES	PPE USED	SAMPLE NUMBER	START/ STOP	SAMPLE TIME	CONTAMINANT	RESULTS (f/cc)	PEL (f/cc)
Area Sample	Room 1707; Column K22 area; about six feet north of Cubicle 023; approximately six feet above floor/Normal office activities	N/A	20803001-F01ME	8:49/ 16:58	489	Fibers	<0.004	0.1
Area Sample	Room 1707; Column K20 area; Cubicle 17A; approximately six feet above floor/Normal office activities	N/A	20803001-F02ME	8:52/ 16:59	487	Fibers	<0.004	0.1
Area Sample	Room 1707; Column K18 area; about ten feet north of Cubicle 012; approximately six feet above floor/Normal office activities	N/A	20803001-F03ME	8:55/ 17:07	492	Fibers	<0.004	0.1
Area Sample	Room 1707; area between Column L18 and M18; about eight feet west of Cubicle 132; approximately six feet above floor/Normal office activities	N/A	20803001-F04ME	8:57/ 17:08	491	Fibers	<0.004	0.1
Area Sample	Room 1723; Column N18 area; about eight feet west of Cubicle 127; approximately six feet above floor/Normal office activities	N/A	20803001-F05ME	9:00/ 17:10	490	Fibers	<0.004	0.1
Area Sample	Room 1713; Column N20 area; about six feet south of Cubicle 104; approximately six feet above floor/Normal office activities	N/A	20803001-F06ME	9:05/ 17:13	488	Fibers	0.005	0.1
Area Sample	Room 1707; Column N22 area; about eight feet north of cubicle 90; approximately six feet above floor/Normal office activities	N/A	20803001-F07ME	9:07/ 17:15	488	Fibers	0.004	0.1
Blank	N/A	N/A	20803001-F44BlankME	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 94279

APPENDIX A



**TABLE 20802001-126
AIRBORNE TOTAL DUST RESULTS
17TH FLOOR
SACRAMENTO, CALIFORNIA
FEBRUARY 19, 2008**

NAME/ REFERENCE	LOCATION/ ACTIVITIES	PPE USED	SAMPLE NUMBER	START/ STOP	SAMPLE TIME	CONTAMINANT	RESULTS (mg/M ³)	PEL (mg/M ³)
Area Sample	Room 1707; Column N22 area; Cubicle 90; southeastern corner cubicle partition; approximately five feet above floor/Normal office activities	N/A	20802001-TD01ME	11:45/ 16:13	268 minutes	Total dust	<0.19	10
Area Sample	Room 1707; area between Columns L22 and M22; Cubicle 65; northeastern corner cubicle partition; approximately five feet above floor/Normal office activities	N/A	20802001-TD02ME	11:48/ 16:11	263 minutes	Total dust	<0.20	10
Area Sample	Room 1707; Column K22 area; Cubicle 58; southwestern corner cubicle partition; approximately five feet above floor/Normal office activities	N/A	20802001-TD03ME	11:50/ 16:09	259 minutes	Total dust	<0.20	10
Area Sample	Room 1707; Column K22 area; Cubicle 24; southwestern corner cubicle partition; approximately five feet above floor/Normal office activities	N/A	20802001-TD04ME	11:52/ 16:14	262 minutes	Total dust	<0.19	10
Area Sample	Room 1707; Column K20 area; Cubicle 42; western cubicle partition; about center; approximately five feet above floor/Normal office activities	N/A	20802001-TD05ME	11:54/ 16:06	252 minutes	Total dust	<0.20	10
Area Sample	Room 1707; Column K18 area; Cubicle 35; southeastern corner cubicle partition; approximately five feet above floor/Normal office activities	N/A	20802001-TD06ME	11:57/ 16:16	259 minutes	Total dust	<0.19	10
Area Sample	Room 1707; Column L18 area; Cubicle 3; northwestern corner cubicle partition; approximately five feet above floor/Normal office activities	N/A	20802001-TD07ME	11:59/ 16:10	251 minutes	Total dust	<0.20	10
Area Sample	Room 1723; Column N18 area; Cubicle 123; northeastern corner cubicle partition; approximately five feet above floor/normal office activities	N/A	20802001-TD08ME	12:02/ 16:14	252 minutes	Total dust	<0.20	10
Area Sample	Room 1718; Column N19 area; Cubicle 112; northeastern corner cubicle partition; approximately five feet above floor/normal office activities	N/A	20802001-TD09ME	12:06/ 16:18	252 minutes	Total dust	<0.20	10
Area Sample	Room 1713; Column N21 area; Cubicle 100; northeastern corner cubicle partition; approximately five feet above floor/Normal office activities	N/A	20802001-TD10ME	12:08/ 16:22	254 minutes	Total dust	<0.20	10
Blank	N/A	N/A	20802001-TD100BLKME	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 20802001-127
MICROBIAL VOLATILE ORGANIC COMPOUNDS
17TH FLOOR
SACRAMENTO, CALIFORNIA
MARCH 25, 2008

Page 1

NAME/ REFERENCE	LOCATION/ ACTIVITIES	PPE USED	SAMPLE NUMBER	START/ STOP	SAMPLE TIME	CONTAMINANT	RESULTS (mg/m ³)	PEL (mg/m ³)
Area Sample	Room 1707; area between Column L22 and M22; about center; approximately five feet above floor/Normal office activities	N/A	20803001- M01JL	9:27/ 10:59	92 minutes	3-Methylfuran	nd	N/A
						2-Methyl-1-propanol	nd	N/A
						1-Butanol	373 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	160 x10 ⁻⁶	410
						2-Heptanone	230 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-3-1(methylethyl) pyrazine	nd	N/A
						2-Nonanone	nd	N/A
						Fenchone	nd	N/A
						2-Methyl-isoborneol	nd	N/A
a-Terpineol	nd	N/A						
Borneol	nd	N/A						
Geosmin	nd	N/A						
Thujopsene	nd	N/A						

LEGEND

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

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

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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

APPENDIX A



TABLE 20802001-127
MICROBIAL VOLATILE ORGANIC COMPOUNDS
17TH 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 1707; about five feet south of Column K20; approximately five feet above floor/Normal office activities	N/A	20803001- M02JL	9:30/ 11:00	90 minutes	3-Methylfuran	nd	N/A
						2-Methyl-1-propanol	nd	N/A
						1-Butanol	447 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	162 x10 ⁻⁶	410
						2-Heptanone	208 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-3-1(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

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mg/M³: Milligrams per cubic meter
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Sacramento, California 94279

APPENDIX A



TABLE 20802001-127
MICROBIAL VOLATILE ORGANIC COMPOUNDS
17TH 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 1707; area between Column L18 and M18; about center; approximately five feet above floor/Normal office activities	N/A	20803001- M03JL	9:34/ 11:06	92 minutes	3-Methylfuran	nd	N/A
						2-Methyl-1-propanol	nd	N/A
						1-Butanol	439 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	133 x10 ⁻⁶	410
						2-Heptanone	177 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-3-1(methylethyl) pyrazine	nd	N/A
						2-Nonanone	nd	N/A
						Fenchone	nd	N/A
						2-Methyl-isoborneol	nd	N/A
a-Terpineol	nd	N/A						
Borneol	nd	N/A						
Geosmin	nd	N/A						
Thujopsene	nd	N/A						

LEGEND

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

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

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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

APPENDIX A



TABLE 20802001-127
MICROBIAL VOLATILE ORGANIC COMPOUNDS
17TH 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 1718; Column N19 area; about two feet south of Cubicle 117; approximately five feet above floor/Normal office activities	N/A	20803001-M04JL	9:39/ 11:10	91 minutes	3-Methylfuran	nd	N/A
						2-Methyl-1-propanol	nd	N/A
						1-Butanol	536 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	134 x10 ⁻⁶	410
						2-Heptanone	222 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-3-1(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 20802001-127
DIRECT-READING RESULTS
17TH FLOOR
SACRAMENTO, CALIFORNIA
FEBRUARY 15, 2008

LOCATION/SITE ACTIVITIES	SAMPLE TIME	CONTAMINANT	RESULTS (ppm)	COMMENTS
Room 1707; Column K22 area; about four feet east of Cubicle 69; approximately five feet above floor/Normal office activities	15:05/15:08	Volatile Organic Compounds Ozone	ND < 0.1 ND < 0.05	N/A
Room 1707; Column K18 area; about four feet north of Cubicle 12; approximately five feet above floor/Normal office activities	15:15/15:18	Volatile Organic Compounds Ozone	ND < 0.1 < 0.05	N/A
Room 1723; Column N18 area; about four feet south of Cubicle 119; approximately five feet above floor/Normal office activities	15:25/15:28	Volatile Organic Compounds Ozone	ND < 0.1 ND < 0.05	N/A
Room 1707; Column N22 area; about four feet east of Cubicle 76; approximately five feet above floor/Normal office activities	15:35/15:38	Volatile Organic Compounds Ozone	ND < 0.1 ND < 0.05	N/A

LEGEND

ND: Not detected
<: Less than

N/A: Not applicable
ppm: Parts per million



EMLab P&K

Report for:

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

Regarding: Project: 20802001
 EML ID: 391883

Approved by:

Dates of Analysis:
Spore trap analysis: 02-27-2008

Lab Manager
Magzoub Ismail

Project SOPs: Spore trap analysis (I100000)

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

For clarity, we report the number of significant digits as calculated; but, due to the nature of this type of biological data, the number of significant digits that is used for interpretation should generally be one or two. All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank corrections of results is not a standard practice. The results relate only to the items tested.

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

Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20802001

Date of Submittal: 02-22-2008
 Date of Receipt: 02-22-2008
 Date of Report: 02-27-2008

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20802001-TM19outME		20802001-TM20ME		20802001-TM21ME		20802001-TM22ME	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1720573-1		1720574-1		1720575-1		1720576-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*	16	853			1	53		
Aureobasidium								
Basidiospores*	30	1,600	1	53			1	53
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	18	960	2	107			1	53
Curvularia								
Epicoccum	2	27						
Fusarium								
Myrothecium								
Nigrospora								
Other colorless								
Penicillium/Aspergillus types†	3	160					1	53
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*							2	27
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	1+		1+		1+		1+	
Hyphal fragments/m3	< 13		13		< 13		< 13	
Pollen/m3	173		13		< 13		13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		3,600		160		53		186

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: 20802001

Date of Submittal: 02-22-2008
Date of Receipt: 02-22-2008
Date of Report: 02-27-2008

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20802001-TM23ME		20802001-TM24ME		20802001-TM25ME		20802001-TM26ME	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1720577-1		1720578-1		1720579-1		1720580-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria							1	13
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*	1	53	1	53	1	53		
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium			1	53			1	53
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other colorless								
Penicillium/Aspergillus types†							1	53
Pithomyces								
Rusts*			1	13				
Smuts*, Periconia, Myxomycetes*								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	1+		1+		1+		1+	
Hyphal fragments/m3	13		13		13		< 13	
Pollen/m3	< 13		13		13		< 13	
Skin cells (1-4+)	1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		53		119		53		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.

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Date of Submittal: 02-22-2008
Date of Receipt: 02-22-2008
Date of Report: 02-27-2008

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20802001-TM27ME		20802001-TM28ME		20802001-TM29ME		20802001-TM30ME	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1720581-1		1720582-1		1720583-1		1720584-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*	2	107					1	53
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	1	53	1	53	1	53	1	53
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other colorless								
Penicillium/Aspergillus types†	2	107						
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	1+		1+		1+		1+	
Hyphal fragments/m3	< 13		< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		267		53		53		106

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
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Date of Submittal: 02-22-2008
 Date of Receipt: 02-22-2008
 Date of Report: 02-27-2008

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20802001-TM31ME		20802001-TM32ME		20802001-TM33ME		20802001-TM34ME	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1720585-1		1720586-1		1720587-1		1720588-1	
	raw ct.	spores/m3						
Alternaria								
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*					1	53	1	53
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	1	53	2	107			1	53
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other colorless								
Penicillium/Aspergillus types†	1	53						
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	1+		1+		1+		1+	
Hyphal fragments/m3	< 13		13		27		13	
Pollen/m3	< 13		< 13		< 13		13	
Skin cells (1-4+)	1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		106		107		53		106

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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 Northern California
 C/O: Mr. Wes Frey
 Re: 20802001

Date of Submittal: 02-22-2008
 Date of Receipt: 02-22-2008
 Date of Report: 02-27-2008

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20802001-TM35ME		20802001-TM36outME	
Comments (see below)	None		None	
Lab ID-Version‡:	1720589-1		1720590-1	
	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	1	13		
Arthrinium				
Ascospores*	1	53	9	480
Aureobasidium				
Basidiospores*	1	53	16	853
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium			5	267
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Other colorless				
Penicillium/Aspergillus types†			3	160
Pithomyces				
Rusts*				
Smuts*, Periconia, Myxomycetes*				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Background debris (1-4+)††	1+		1+	
Hyphal fragments/m3	< 13		80	
Pollen/m3	13		27	
Skin cells (1-4+)	1+		1+	
Sample volume (liters)	75		75	
TOTAL SPORE/m3		119		1,760

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: 20802001

Date of Submittal: 02-22-2008
Date of Receipt: 02-22-2008
Date of Report: 02-27-2008

MoldRANGE™: Extended Outdoor Comparison**Outdoor Location: 20802001-TM19outME**

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: February				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	-	7	19	190	35	7	27	230	60
Bipolaris/Drechslera group	-	7	13	160	10	7	13	120	14
Chaetomium	-	7	13	130	7	7	13	110	19
Cladosporium	960	27	290	4,300	89	53	640	6,500	98
Curvularia	-	7	13	340	8	7	13	210	7
Epicoccum	27	7	13	240	14	7	13	160	21
Nigrospora	-	7	13	140	8	7	13	170	8
Penicillium/Aspergillus types	160	27	160	1,700	84	40	210	2,500	89
Stachybotrys	-	7	13	370	3	7	13	330	5
Torula	-	7	13	230	5	7	13	150	13
Seldom found growing indoors**									
Ascospores	853	13	110	2,200	67	13	110	1,800	73
Basidiospores	1,600	13	270	8,600	87	13	270	6,900	95
Rusts	-	7	13	240	11	7	13	270	29
Smuts, Periconia, Myxomycetes	-	7	27	270	53	8	40	480	71
TOTAL SPORES/M3	3,600								

† 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.

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Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20802001

Date of Submittal: 02-22-2008
Date of Receipt: 02-22-2008
Date of Report: 02-27-2008

MoldRANGE™: Extended Outdoor Comparison**Outdoor Location: 20802001-TM36outME**

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: February				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	-	7	19	190	35	7	27	230	60
Bipolaris/Drechslera group	-	7	13	160	10	7	13	120	14
Chaetomium	-	7	13	130	7	7	13	110	19
Cladosporium	267	27	290	4,300	89	53	640	6,500	98
Curvularia	-	7	13	340	8	7	13	210	7
Epicoccum	-	7	13	240	14	7	13	160	21
Nigrospora	-	7	13	140	8	7	13	170	8
Penicillium/Aspergillus types	160	27	160	1,700	84	40	210	2,500	89
Stachybotrys	-	7	13	370	3	7	13	330	5
Torula	-	7	13	230	5	7	13	150	13
Seldom found growing indoors**									
Ascospores	480	13	110	2,200	67	13	110	1,800	73
Basidiospores	853	13	270	8,600	87	13	270	6,900	95
Rusts	-	7	13	240	11	7	13	270	29
Smuts, Periconia, Myxomycetes	-	7	27	270	53	8	40	480	71
TOTAL SPORES/M3	1,760								

† 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: 20802001

Date of Submittal: 02-22-2008
 Date of Receipt: 02-22-2008
 Date of Report: 02-27-2008

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 20802001-TM19outME:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores				853	13 - 160 - 4,200	76
Basidiospores				1,600	13 - 320 - 14,000	92
Cladosporium				960	40 - 530 - 8,500	95
Epicoccum				27	7 - 13 - 320	24
Penicillium/Aspergillus types				160	27 - 210 - 2,600	85
Smuts, Periconia, Myxomycetes				ND	7 - 40 - 760	70
Total				3,600		

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: 20802001-TM20ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.8000 Critical value: 0.8000 Outside Similar: No	Score: 104 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Basidiospores				53
	Cladosporium				107
	Total				160

Location: 20802001-TM21ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.2500 Critical value: 0.8000 Outside Similar: No	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Ascospores				53
	Total				53

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20802001-TM22ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 Inside Similar: Yes	Result: 0.6667	dF: 6 Result: 0.5571 Critical value: 0.7714 Outside Similar: No	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					53
Penicillium/Aspergillus types					53
Smuts, Periconia, Myxomycetes					27
Total					186

Location: 20802001-TM23ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.7500 Critical value: 0.8000 Outside Similar: No	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Total					53

Location: 20802001-TM24ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.5857 Critical value: 0.7714 Outside Similar: No	Score: 101 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					53
Rusts					13
Total					119

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20802001-TM25ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.7500 Critical value: 0.8000 Outside Similar: No	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Total					53

Location: 20802001-TM26ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: -0.0143 Critical value: 0.7714 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Cladosporium					53
Penicillium/Aspergillus types					53
Total					119

Location: 20802001-TM27ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 Inside Similar: Yes	Result: 0.7500	dF: 5 Result: 0.5000 Critical value: 0.8000 Outside Similar: No	Score: 115 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					107
Cladosporium					53
Penicillium/Aspergillus types					107
Total					267

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20802001-TM28ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.5000 Critical value: 0.8000 Outside Similar: No	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Total					53

Location: 20802001-TM29ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.5000 Critical value: 0.8000 Outside Similar: No	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Total					53

Location: 20802001-TM30ME

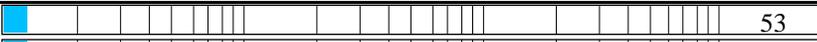
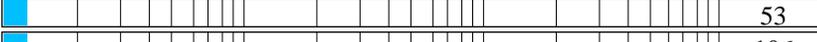
% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 2%	dF: 15 Result: 6.1733 Critical value: 24.9958 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.8750 Critical value: 0.8000 Outside Similar: Yes	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					53
Total					106

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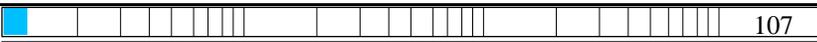
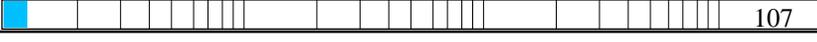
Date of Submittal: 02-22-2008
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 Date of Report: 02-27-2008

MoldSTAT™: Supplementary Statistical Spore Trap Report

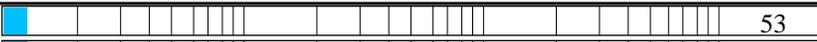
Location: 20802001-TM31ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.1250 Critical value: 0.8000 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Penicillium/Aspergillus types					53
Total					106

Location: 20802001-TM32ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.5000 Critical value: 0.8000 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					107
Total					107

Location: 20802001-TM33ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.7500 Critical value: 0.8000 Outside Similar: No	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Total					53

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20802001-TM34ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.8750 Critical value: 0.8000 Outside Similar: Yes	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					
Cladosporium					
Total					

Location: 20802001-TM35ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.3857 Critical value: 0.7714 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					
Ascospores					
Basidiospores					
Total					

* 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.

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MoldSTAT™: Supplementary Statistical Spore Trap Report

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

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 20802001-TM36outME:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores				480	13 - 160 - 4,200	76
Basidiospores				853	13 - 320 - 14,000	92
Cladosporium				267	40 - 530 - 8,500	95
Penicillium/Aspergillus types				160	27 - 210 - 2,600	85
Smuts, Periconia, Myxomycetes				ND	7 - 40 - 760	70
Total				1,760		

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: 20802001-TM20ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 9%	dF: 15 Result: 6.1733 Critical value: 24.9958 Inside Similar: Yes	Result: 0.6667	dF: 4 Result: 0.2500 Critical value: N/A Outside Similar: N/A	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Basidiospores				53
	Cladosporium				107
	Total				160

Location: 20802001-TM21ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 Inside Similar: Yes	Result: 0.4000	dF: 4 Result: 0.4000 Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Ascospores				53
	Total				53

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20802001-TM22ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 10%	dF: 15 Result: 6.1733 Critical value: 24.9958 Inside Similar: Yes	Result: 0.7500	dF: 5 Result: 0.2000 Critical value: 0.8000 Outside Similar: No	Score: 106 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					53
Penicillium/Aspergillus types					53
Smuts, Periconia, Myxomycetes					27
Total					186

Location: 20802001-TM23ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 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: 20802001-TM24ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.3500 Critical value: 0.8000 Outside Similar: No	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					53
Rusts					13
Total					119

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20802001

Date of Submittal: 02-22-2008
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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20802001-TM25ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 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: 20802001-TM26ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: -0.5500 Critical value: 0.8000 Outside Similar: No	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Cladosporium					53
Penicillium/Aspergillus types					53
Total					119

Location: 20802001-TM27ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 Inside Similar: Yes	Result: 0.8571	dF: 4 Result: -0.0500 Critical value: N/A Outside Similar: N/A	Score: 114 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					107
Cladosporium					53
Penicillium/Aspergillus types					107
Total					267

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20802001-TM28ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 Inside Similar: Yes	Result: 0.4000	dF: 4 Result: 0.0000 Critical value: N/A Outside Similar: N/A	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Total					53

Location: 20802001-TM29ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 Inside Similar: Yes	Result: 0.4000	dF: 4 Result: 0.0000 Critical value: N/A Outside Similar: N/A	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Total					53

Location: 20802001-TM30ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 Inside Similar: Yes	Result: 0.6667	dF: 4 Result: 0.5000 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

Client: Hygiene Technologies International, Inc.:
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 Re: 20802001

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20802001-TM31ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 Inside Similar: Yes	Result: 0.6667	dF: 4 Result: -0.7000 Critical value: N/A Outside Similar: N/A	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Penicillium/Aspergillus types					53
Total					106

Location: 20802001-TM32ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 Inside Similar: Yes	Result: 0.4000	dF: 4 Result: 0.0000 Critical value: N/A Outside Similar: N/A	Score: 106 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					107
Total					107

Location: 20802001-TM33ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 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

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20802001-TM34ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 Inside Similar: Yes	Result: 0.6667	dF: 4 Result: 0.5000 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: 20802001-TM35ME

% 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: 15 Result: 6.1733 Critical value: 24.9958 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
Ascospores					53
Basidiospores					53
Total					119

* 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.

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MoldSTAT™: Supplementary Statistical Spore Trap Report

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

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

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MoldSCORE™: Spore Trap Report

Location: 20802001-TM21ME

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††					1	53	116			
Basidiospores††					ND	< 13	100			
Rusts					ND	< 13	100			
Smuts, Periconia, Myxomycetes††					ND	< 13	100			
Total						53	Final MoldSCORE 100			

Location: 20802001-TM22ME

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	107			
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††					2	27	105			
Total						186	Final MoldSCORE 107			

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MoldSCORE™: Spore Trap Report

Location: 20802001-TM23ME

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			

Location: 20802001-TM24ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█	█	█	100
Bipolaris/Drechslera group					ND	< 13	█	█	█	100
Chaetomium					ND	< 13	█	█	█	100
Cladosporium	█				1	53	█	█	█	101
Curvularia					ND	< 13	█	█	█	100
Nigrospora					ND	< 13	█	█	█	100
Penicillium/Aspergillus types†					ND	< 13	█	█	█	100
Stachybotrys					ND	< 13	█	█	█	100
Torula					ND	< 13	█	█	█	100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█	█	█	100
Basidiospores††	█				1	53	█	█	█	100
Rusts	█				1	13	█	█	█	105
Smuts, Periconia, Myxomycetes††					ND	< 13	█	█	█	100
Total						119	Final MoldSCORE 101			

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MoldSCORE™: Spore Trap Report

Location: 20802001-TM25ME

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			

Location: 20802001-TM26ME

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	█			101
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†	█				1	53	█			108
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††					ND	< 13	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						119	Final MoldSCORE 108			

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MoldSCORE™: Spore Trap Report

Location: 20802001-TM27ME

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†	█				2	107	115			
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						267	Final MoldSCORE 115			

Location: 20802001-TM28ME

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

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MoldSCORE™: Spore Trap Report

Location: 20802001-TM29ME

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

Location: 20802001-TM30ME

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	█	█	█	101
Rusts					ND	< 13	█	█	█	100
Smuts, Periconia, Myxomycetes††					ND	< 13	█	█	█	100
Total						106	Final MoldSCORE 102			

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MoldSCORE™: Spore Trap Report

Location: 20802001-TM31ME

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	█	█	█	108
Stachybotrys					ND	< 13	█	█	█	100
Torula					ND	< 13	█	█	█	100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█	█	█	100
Basidiospores††					ND	< 13	█	█	█	100
Rusts					ND	< 13	█	█	█	100
Smuts, Periconia, Myxomycetes††					ND	< 13	█	█	█	100
Total						106	Final MoldSCORE 108			

Location: 20802001-TM32ME

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

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MoldSCORE™: Spore Trap Report

Location: 20802001-TM33ME

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			

Location: 20802001-TM34ME

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	█	█	█	101
Rusts					ND	< 13	█	█	█	100
Smuts, Periconia, Myxomycetes††					ND	< 13	█	█	█	100
Total						106	Final MoldSCORE 102			

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20802001

Date of Submittal: 02-22-2008
 Date of Receipt: 02-22-2008
 Date of Report: 02-27-2008

MoldSCORE™: Spore Trap Report

Location: 20802001-TM35ME

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

*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.

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 Re: 20802001

Date of Submittal: 02-22-2008
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MoldSCORE™: Spore Trap Report

Location: 20802001-TM21ME

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††	█				1	53	█	█	█	116
Basidiospores††					ND	< 13	█	█	█	100
Rusts					ND	< 13	█	█	█	100
Smuts, Periconia, Myxomycetes††					ND	< 13	█	█	█	100
Total						53	Final MoldSCORE 100			

Location: 20802001-TM22ME

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	█	█	█	106
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††	█				2	27	█	█	█	105
Total						186	Final MoldSCORE 106			

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MoldSCORE™: Spore Trap Report

Location: 20802001-TM23ME

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		

Location: 20802001-TM24ME

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					1	13				105
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						119				
							Final MoldSCORE	102		

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 Re: 20802001

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MoldSCORE™: Spore Trap Report

Location: 20802001-TM25ME

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			

Location: 20802001-TM26ME

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†	█				1	53	█			107
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††					ND	< 13	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						119	Final MoldSCORE 107			

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Date of Submittal: 02-22-2008
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MoldSCORE™: Spore Trap Report

Location: 20802001-TM27ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium	█				1	53				101
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†	█				2	107				114
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						267				Final MoldSCORE 114

Location: 20802001-TM28ME

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

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MoldSCORE™: Spore Trap Report

Location: 20802001-TM29ME

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

Location: 20802001-TM30ME

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	█	█	█	101
Rusts					ND	< 13	█	█	█	100
Smuts, Periconia, Myxomycetes††					ND	< 13	█	█	█	100
Total						106	Final MoldSCORE 102			

Client: Hygiene Technologies International, Inc.:
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 Re: 20802001

Date of Submittal: 02-22-2008
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MoldSCORE™: Spore Trap Report

Location: 20802001-TM31ME

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	█	█	█	107
Stachybotrys					ND	< 13	█	█	█	100
Torula					ND	< 13	█	█	█	100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█	█	█	100
Basidiospores††					ND	< 13	█	█	█	100
Rusts					ND	< 13	█	█	█	100
Smuts, Periconia, Myxomycetes††					ND	< 13	█	█	█	100
Total						106	Final MoldSCORE 107			

Location: 20802001-TM32ME

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

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MoldSCORE™: Spore Trap Report

Location: 20802001-TM33ME

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			

Location: 20802001-TM34ME

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	█			101
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						106	Final MoldSCORE 102			

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MoldSCORE™: Spore Trap Report

Location: 20802001-TM35ME

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

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

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

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

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

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



EMLab P&K

Report for:

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

Regarding: Project: 20802001
 EML ID: 391883

Approved by:

Lab Manager
Magzoub Ismail

Dates of Analysis:
Culturable air fungi (Incl. Asp spp.): 02-29-2008
Spore trap analysis: 02-27-2008

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

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

For clarity, we report the number of significant digits as calculated; but, due to the nature of this type of biological data, the number of significant digits that is used for interpretation should generally be one or two. All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank corrections of results is not a standard practice. The results relate only to the items tested.

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

Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20802001

Date of Submittal: 02-22-2008
 Date of Receipt: 02-22-2008
 Date of Report: 02-29-2008

CULTURABLE AIR FUNGI REPORT

Location:	20802001-VM01outME		20802001-VM02ME		20802001-VM03ME		20802001-VM04ME	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1720563-1		1720564-1		1720565-1		1720566-1	
	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	1	18						
Basidiomycetes								
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	12	212						
Curvularia								
Epicoccum								
Fusarium								
Non-sporulating fungi	3	53						
Paecilomyces								
Penicillium								
Phoma								
Rhizopus								
Stachybotrys chartarum								
Ulocladium								
Yeasts	6	106						
Positive Hole	400		400		400		400	
Sample volume (liters)	56.6		56.6		56.6		56.6	
TOTAL CFU*/M3		389		< 18		< 18		< 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: 20802001

Date of Submittal: 02-22-2008
Date of Receipt: 02-22-2008
Date of Report: 02-29-2008

CULTURABLE AIR FUNGI REPORT

Location:	20802001-VM05ME		20802001-VM06ME		20802001-VM07ME		20802001-VM08ME	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1720567-1		1720568-1		1720569-1		1720570-1	
	raw ct.	cfu*/m3						
Acremonium								
Alternaria								
Aspergillus flavus								
Aspergillus fumigatus								
Aspergillus nidulans								
Aspergillus niger							1	18
Aspergillus ochraceus								
Aspergillus versicolor								
Aureobasidium					1	18		
Basidiomycetes								
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium							1	18
Curvularia								
Epicoccum								
Fusarium								
Non-sporulating fungi								
Paecilomyces								
Penicillium								
Phoma								
Rhizopus								
Stachybotrys chartarum								
Ulocladium								
Yeasts	1	18	1	18				
Positive Hole	400		400		400		400	
Sample volume (liters)	56.6		56.6		56.6		56.6	
TOTAL CFU*/M3		18		18		18		36

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

Comments:

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 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.)
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 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.
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Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20802001

Date of Submittal: 02-22-2008
Date of Receipt: 02-22-2008
Date of Report: 02-29-2008

CULTURABLE AIR FUNGI REPORT

Location:	20802001-VM09ME		20802001-VM10outME	
Comments (see below)	None		None	
Lab ID-Version‡:	1720571-1		1720572-1	
	raw ct.	cfu*/m3	raw ct.	cfu*/m3
Acremonium				
Alternaria				
Aspergillus flavus				
Aspergillus fumigatus				
Aspergillus nidulans				
Aspergillus niger				
Aspergillus ochraceus				
Aspergillus versicolor				
Aureobasidium				
Basidiomycetes				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	1	18	42	777
Curvularia				
Epicoccum			1	18
Fusarium				
Non-sporulating fungi			3	53
Paecilomyces				
Penicillium				
Phoma				
Rhizopus				
Stachybotrys chartarum				
Ulocladium				
Yeasts				
Positive Hole	400		400	
Sample volume (liters)	56.6		56.6	
TOTAL CFU*/M3		18		848

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

Comments:

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



HYGIENE TECH

Hygiene Technologies International, Inc.

3625 Del Amo Boulevard, Suite 180
Torrance, California 90503-1643
(310) 370-8370
(310) 370-2474 FAX
www.hygienetech.com

Request For Analysis

Project Number/Purchase Order: 20802001 Date Submitted: _____

Project Contact: Wee Frey Turnaround Required: _____

Lab Destination: EM lab Lab Contact: _____

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
20802001-TM19outline	75L	allergence D	Total Fungi ID qualitative
-TM20ME			
-TM21ME			
-TM22ME			
-TM23ME			
-TM24ME			
-TM25ME			
-TM26ME			
-TM27ME			
-TM28ME			
-TM29ME			
-TM30ME			
-TM31ME			
-TM32ME			
-TM33ME			
-TM34ME			

Special Instructions: _____

1. Sampled by: Makka EM Received by: gl 2/22/08 10:00

2. Relinquished by: gl 2/22/10:45 Received by: [Signature]

3. Relinquished by: _____ Received by: _____

Please include signature, date, and time

Lab Use Only: _____

3/1/08



HYGIENE TECH

Hygiene Technologies International, Inc.

3625 Del Amo Boulevard, Suite 180
Torrance, California 90503-1643
(310) 370-8370
(310) 370-2474 FAX
www.hygienetech.com

Request For Analysis

Project Number/Purchase Order: 20802001 Date Submitted: _____

Project Contact: Wes Frey Turnaround Required: _____

Lab Destination: EM lab Lab Contact: _____

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
20802001-TM35ME	75L	allergence D	Total Fungi ID
-TM36outME	75L	↓	↓
-VM01outME	50.0L	MEA	Viable Fungi ID
-VM02ME	↓	↓	↓
-VM03ME	↓	↓	↓
-VM04ME	↓	↓	↓
-VM05ME	↓	↓	↓
-VM06ME	↓	↓	↓
-VM07ME	↓	↓	↓
-VM08ME	↓	↓	↓
-VM09ME	↓	↓	↓
✓ -VM10outME	↓	↓	↓

Special Instructions: _____

1. Sampled by: Melika EM Received by: [Signature] 2/22/08 10:00
 2. Relinquished by: W 2/22/08 10:45 Received by: [Signature] 2/22/08 10:45
 3. Relinquished by: _____ Received by: _____

Please include signature, date, and time

Lab Use Only: _____

591883



EMLab P&K

Report for:

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

Regarding: Project: 20802001
 EML ID: 391886

Approved by:

Lab Manager
Magzoub Ismail

Dates of Analysis:
Spore trap analysis: 02-27-2008

Project SOPs: Spore trap analysis (I100000)

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

For clarity, we report the number of significant digits as calculated; but, due to the nature of this type of biological data, the number of significant digits that is used for interpretation should generally be one or two. All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank corrections of results is not a standard practice. The results relate only to the items tested.

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Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20802001

Date of Sampling: 02-21-2008
 Date of Receipt: 02-22-2008
 Date of Report: 02-27-2008

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20802001-TM37ME		20802001-TM38ME		20802001-TM39ME		20802001-TM40ME	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1720615-1		1720616-1		1720617-1		1720618-1	
	raw ct.	spores/m3						
Alternaria								
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*	1	53						
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	1	53	1	53	1	53		
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other colorless								
Penicillium/Aspergillus types†			1	53				
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	1+		1+		1+		1+	
Hyphal fragments/m3	< 13		< 13		13		< 13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		106		106		53		< 13

Comments:

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.
 † The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
 †† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.
 The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.
 ‡ A "Version" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20802001

Date of Sampling: 02-21-2008
 Date of Receipt: 02-22-2008
 Date of Report: 02-27-2008

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20802001-TM41ME		20802001-TM42ME		20802001-TM43ME		20802001-TM44ME	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1720619-1		1720620-1		1720621-1		1720622-1	
	raw ct.	spores/m3						
Alternaria								
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*								
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium			1	53				
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	1+		1+		1+		1+	
Hyphal fragments/m3	< 13		< 13		< 13		13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		< 13		53		< 13		< 13

Comments:

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.
 † The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
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Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20802001

Date of Sampling: 02-21-2008
Date of Receipt: 02-22-2008
Date of Report: 02-27-2008

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20802001-TM45ME		20802001-TM46ME		20802001-TM47ME		20802001-TM48ME	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1720623-1		1720624-1		1720625-1		1720626-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*					2	107		
Aureobasidium								
Basidiospores*								
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	1	53					1	53
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*							1	13
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	1+		1+		1+		1+	
Hyphal fragments/m3	< 13		< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		53		< 13		107		66

Comments:

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† 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: 20802001

Date of Sampling: 02-21-2008
Date of Receipt: 02-22-2008
Date of Report: 02-27-2008

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20802001-TM49ME		20802001-TM50ME		20802001-TM51ME		20802001-TM52ME	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1720627-1		1720628-1		1720629-1		1720630-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*	1	53			2	107	1	53
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	2	107	1	53			1	53
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	1+		1+		1+		1+	
Hyphal fragments/m3	< 13		< 13		< 13		< 13	
Pollen/m3	< 13		< 13		13		< 13	
Skin cells (1-4+)	1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		160		53		107		106

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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‡ 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: 20802001
 EML ID: 391886

Approved by:

Lab Manager
Magzoub Ismail

Dates of Analysis:
Culturable air fungi (Incl. Asp spp.): 02-29-2008
Spore trap analysis: 02-27-2008

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

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

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Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20802001

Date of Sampling: 02-21-2008
Date of Receipt: 02-22-2008
Date of Report: 02-29-2008

CULTURABLE AIR FUNGI REPORT

Location:	20802001-VM11ME		20802001-VM12ME		20802001-VM13ME		20802001-VM14ME	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1720597-1		1720598-1		1720599-1		1720600-1	
	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	4	71			1	18		
Aspergillus ochraceus								
Aspergillus versicolor								
Aureobasidium								
Basidiomycetes								
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	1	18					1	18
Curvularia								
Epicoccum								
Fusarium								
Non-sporulating fungi								
Paecilomyces								
Penicillium	2	35						
Phoma								
Rhizopus								
Stachybotrys chartarum								
Ulocladium								
Yeasts			1	18	1	18		
Positive Hole	400		400		400		400	
Sample volume (liters)	56.6		56.6		56.6		56.6	
TOTAL CFU*/M3		124		18		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: 20802001

Date of Sampling: 02-21-2008
 Date of Receipt: 02-22-2008
 Date of Report: 02-29-2008

CULTURABLE AIR FUNGI REPORT

Location:	20802001-VM15ME		20802001-VM16ME		20802001-VM17ME		20802001-VM18ME	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1720601-1		1720602-1		1720603-1		1720604-1	
	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	3	53						
Aspergillus ochraceus								
Aspergillus versicolor								
Aureobasidium								
Basidiomycetes								
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium					1	18		
Curvularia								
Epicoccum								
Fusarium								
Non-sporulating fungi								
Paecilomyces								
Penicillium								
Phoma								
Rhizopus								
Stachybotrys chartarum								
Ulocladium								
Yeasts								
Positive Hole	400		400		400		400	
Sample volume (liters)	56.6		56.6		56.6		56.6	
TOTAL CFU*/M3		53		< 18		18		< 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.
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 ‡ A "Version" greater than 1 indicates amended data.



HYGIENE TECH

Hygiene Technologies International, Inc.

3625 Del Amo Boulevard, Suite 180
Torrance, California 90503-1643
(310) 370-8370
(310) 370-2474 FAX
www.hygienestech.com

Request For Analysis

Project Number/Purchase Order: 20802001 Date Submitted: 2/22/08
 Project Contact: Wes Frey Turnaround Required: standard
 Lab Destination: EM lab Lab Contact: _____

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
20802001-TM37ME	75L	tap	Total fungi ID qualitative
-TM38ME			
-TM39ME			
-TM40ME			
-TM41ME			
-TM42ME			
-TM43ME			
-TM44ME			
-TM45ME			
-TM46ME			
-TM47ME			
-TM48ME			
-TM49ME			
-TM50ME			
-TM51ME			
-TM52ME			

Special Instructions: _____

1. Sampled by: Makya EM 2/21/08 Received by: GL 2/22/08 10:00
 2. Relinquished by: WLF 2/22/08 10:45 Received by: VANDENBERG 2/22/08
 3. Relinquished by: _____ Received by: _____
 Please include signature, date, and time

Lab Use Only:

391886



EMLab P&K

Report for:

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

Regarding: Project: 20802001
 EML ID: 391400

Approved by:

Lab Manager
Dr. Kamashwaran Ramanathan

Dates of Analysis:
Direct microscopic exam (Qualitative): 02-26-2008
Spore trap analysis: 02-26-2008

Project SOPs: Direct microscopic exam (Qualitative) (I100005), Spore trap analysis (I100000)

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

For clarity, we report the number of significant digits as calculated; but, due to the nature of this type of biological data, the number of significant digits that is used for interpretation should generally be one or two. All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank corrections of results is not a standard practice. The results relate only to the items tested.

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

Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20802001

Date of Sampling: 02-19-2008
Date of Receipt: 02-21-2008
Date of Report: 02-26-2008

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20802001-TM116CCJL		20802001-TM117CCJL		20802001-TM118CCJL		20802001-TM119CCJL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1718344-1		1718345-1		1718346-1		1718347-1	
	raw ct.	spores/m3						
Alternaria					1	13		
Arthrinium								
Ascospores*							1	53
Aureobasidium								
Basidiospores*	1	53			1	53	1	53
Bipolaris/Drechslera group							1	13
Botrytis								
Chaetomium								
Cladosporium	6	320	9	480	2	107	1	53
Curvularia							1	13
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other colorless								
Penicillium/Aspergillus types†	7	373						
Pithomyces								
Rusts*			1	13	1	13		
Smuts*, Periconia, Myxomycetes*			1	13			1	13
Stachybotrys								
Stemphylium							1	13
Torula								
Ulocladium								
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+		1+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		746		506		186		211

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: 20802001Date of Sampling: 02-19-2008
Date of Receipt: 02-21-2008
Date of Report: 02-26-2008**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	20802001- TM120CCJL		20802001- TM121CCJL		20802001- TM122CCJL		20802001- TM123CCJL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1718348-1		1718349-1		1718350-1		1718351-1	
	raw ct.	spores/m3						
Alternaria								
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*	1	53						
Bipolaris/Drechslera group								
Botrytis								
Chaetomium	1	13						
Cladosporium	4	213	1	53	4	213	3	160
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other colorless								
Penicillium/Aspergillus types†							1	53
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*	4	53	6	80				
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		2+		2+		2+	
Hyphal fragments/m3	< 13		27		< 13		13	
Pollen/m3	< 13		13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		332		133		213		213

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 sample 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: 20802001

Date of Sampling: 02-19-2008
Date of Receipt: 02-21-2008
Date of Report: 02-26-2008

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‡: 1718336-1: Swab sample 20802001-S17JL				
Moderate	Very few	< 1+ <i>Cladosporium</i> species (spores, hyphae) < 1+ <i>Alternaria</i> species (spores, hyphae)	A few <i>Chaetomium</i> spores detected.	Minimal mold growth
Lab ID-Version: 1718337-1: Swab sample 20802001-S18JL				
Moderate	Very few	1+ <i>Cladosporium</i> species (spores, hyphae) < 1+ <i>Penicillium</i> species (spores, hyphae, conidiophores) < 1+ <i>Alternaria</i> species (spores, hyphae)	None	Mold growth
Lab ID-Version: 1718338-1: Swab sample 20802001-S19JL				
Moderate	Very few	< 1+ <i>Penicillium</i> species (spores, hyphae, conidiophores) < 1+ <i>Cladosporium</i> species (spores, hyphae) < 1+ <i>Alternaria</i> species (spores, hyphae)	Very few <i>Chaetomium</i> spores detected.	Minimal mold growth
Lab ID-Version: 1718339-1: Swab sample 20802001-S20JL				
Moderate	Very few	< 1+ <i>Cladosporium</i> species (spores, hyphae) < 1+ <i>Alternaria</i> species (spores, hyphae)	None	Minimal mold growth
Lab ID-Version: 1718340-1: Swab sample 20802001-S21JL				
Moderate	Very few	< 1+ <i>Cladosporium</i> species (spores, hyphae)	None	Minimal mold growth
Lab ID-Version: 1718341-1: Swab sample 20802001-S22JL				
Moderate	Very few	1+ <i>Penicillium</i> species (spores, hyphae, conidiophores) < 1+ <i>Cladosporium</i> species (spores, hyphae)	None	Mold growth
Lab ID-Version: 1718342-1: Swab sample 20802001-S23JL				
Moderate	Very few	< 1+ <i>Cladosporium</i> species (spores, hyphae) < 1+ <i>Alternaria</i> species (spores, hyphae)	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‡: 1718343-1: Swab sample 20802001-S24JL				
Moderate	Very few	1+ <i>Penicillium</i> species (spores, hyphae, conidiophores) 1+ <i>Aspergillus</i> species (spores, hyphae, conidiophores) < 1+ <i>Cladosporium</i> species (spores, hyphae)	None	Mold growth

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



HYGIENE TECH

Hygiene Technologies International, Inc.

3625 Del Amo Boulevard, Suite 160
Torrance, California 90503-1643
(310) 370-8370
(310) 370-2474 FAX
www.hygienetech.com

Request For Analysis

Project Number/Purchase Order: 20802001 Date Submitted: 2/21/08
 Project Contact: Wes Frey Turnaround Required: standard
 Lab Destination: EM Lab Lab Contact: _____

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
20802001-817JL	N/A	swab	surface fungi ID qualitative
-S18JL	↓	↓	↓
-S19JL	↓	↓	↓
-S20JL	↓	↓	↓
-S21JL	↓	↓	↓
-S22JL	↓	↓	↓
-S23JL	↓	↓	↓
-S24JL	↓	↓	↓
-TM116CCJL	75 L	allergenco D	Total fungi ID
-TM117CCJL	↓	↓	↓
-TM118CCJL	↓	↓	↓
-TM119CCJL	↓	↓	↓
-TM120CCJL	↓	↓	↓
-TM121CCJL	↓	↓	↓
-TM122CCJL	↓	↓	↓
-TM123CCJL	↓	↓	↓

Special Instructions: _____

1. Sampled by: John Le 2/19/08 Received by: [Signature] 2/20/08
 2. Relinquished by: kl 2/20/08 9:00 Received by: [Signature] 2/21/08 9:45 AM
 3. Relinquished by: _____ Received by: _____
 Please include signature, date, and time

Lab Use Only: _____

391400



EMLab P&K

Report for:

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

Regarding: Project: 20802001
 EML ID: 390732

Approved by:

Lab Manager
Dr. Kamashwaran Ramanathan

Dates of Analysis:

Direct microscopic exam (Qualitative): 02-22-2008

Project SOPs: Direct microscopic exam (Qualitative) (I100005)

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: 20802001

Date of Sampling: 02-19-2008
 Date of Receipt: 02-20-2008
 Date of Report: 02-22-2008

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‡: 1716433-1: Tape sample 20802001-TL41JL				
Scant	Very few	None	None	Normal trapping
Lab ID-Version: 1716434-1: Tape sample 20802001-TL42JL				
Scant	Very few	None	None	Normal trapping
Lab ID-Version: 1716435-1: Tape sample 20802001-TL43JL				
Scant	Very few	None	None	Normal trapping
Lab ID-Version: 1716436-1: Tape sample 20802001-TL44JL				
Scant	Very few	None	None	Normal trapping
Lab ID-Version: 1716437-1: Tape sample 20802001-TL45JL				
Scant	Very few	None	None	Normal trapping
Lab ID-Version: 1716438-1: Tape sample 20802001-TL46JL				
Scant	Very few	None	None	Normal trapping
Lab ID-Version: 1716439-1: Tape sample 20802001-TL47JL				
Scant	Very few	None	None	Normal trapping
Lab ID-Version: 1716440-1: Tape sample 20802001-TL48JL				
Scant	Very few	None	None	Normal trapping
Lab ID-Version: 1716441-1: Tape sample 20802001-TL49JL				
Scant	Very few	None	None	Normal trapping
Lab ID-Version: 1716442-1: Tape sample 20802001-TL50JL				
Scant	Very few	None	None	Normal trapping
Lab ID-Version: 1716443-1: Tape sample 20802001-TL51JL				
Scant	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‡: 1716444-1: Tape sample 20802001-TL52JL				
Scant	Very few	None	None	Normal trapping
Lab ID-Version: 1716445-1: Tape sample 20802001-TL53JL				
Scant	Very few	None	None	Normal trapping
Lab ID-Version: 1716446-1: Tape sample 20802001-TL54JL				
Scant	Very few	None	None	Normal trapping
Lab ID-Version: 1716447-1: Tape sample 20802001-TL55JL				
Scant	Very few	None	None	Normal trapping
Lab ID-Version: 1716448-1: Tape sample 20802001-TL56JL				
Scant	Very few	None	None	Normal trapping
Lab ID-Version: 1716449-1: Tape sample 20802001-TL57JL				
Scant	Very few	None	None	Normal trapping
Lab ID-Version: 1716450-1: Tape sample 20802001-TL58JL				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1716451-1: Tape sample 20802001-TL59JL				
Scant	Very few	None	None	Normal trapping

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



HYGIENE TECH

Hygiene Technologies International, Inc.

3525 Del Amo Boulevard, Suite 180
Torrance, California 90503-1643
(310) 370-8370
(310) 370-2474 FAX
www.hygienetech.com

Request For Analysis

Project Number/Purchase Order: 20802001 Date Submitted: 2/19/08
 Project Contact: Wes Fry Turnaround Required: Standard
 Lab Destination: FML Lab Contact: _____

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
20802001-TL41JL	N/A	TAPE	Surface <u>Surface fungi</u>
TL42JL			
TL43JL			
TL44JL			
TL45JL			
TL46JL			
TL47JL			
TL48JL			
TL49JL			
TL50JL			
TL51JL			
TL52JL			
TL53JL			
TL54JL			
TL55JL			
TL56JL			

Special Instructions: _____

1. Sampled by: John Ly 2/15/08 17:00 Received by: AM 2/19/08 4:00
 2. Relinquished by: W 2/20/08 9:30 Received by: Wes Fry 2/20/08 9:45 AM
 3. Relinquished by: _____ Received by: _____
 Please include signature, date, and time

Lab Use Only: 390732

