



# HYGIENETECH

Hygiene Technologies International, Inc.

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June 9, 2008

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

Document No. 20805001.5

Attention: David Gau

Regarding: 23<sup>rd</sup> Floor Men's Restroom Clearance

Dear Mr. Gau:

On May 23, 2008, Hygiene Technologies International, Inc. (HygieneTech) industrial hygienists performed a fungal growth remediation clearance survey in the 23<sup>rd</sup> Floor Men's Restroom at the Board of Equalization building located at the above-referenced address. Remediation work was performed in the 23<sup>rd</sup> Floor Men's Restroom by JLS from May 19 through 21, 2008. During that period, JLS personnel had removed fungal growth-contaminated building materials from the Men's Restroom affected by prior water intrusion episodes and decontaminated other building material surfaces and finishing materials, such as subfloors and proximate walls in the abatement area that were potentially affected. Additionally, all such work was performed under controlled conditions so that dispersion of airborne spores was limited to the enclosed containment area.

At the time of the clearance survey, visual inspection was performed within the enclosed work area. By observation, all gross quantities of fungal growth had been removed from the fungal growth abatement area. An air sample was collected within the containment for total (viable and nonviable) fungi analyses using a Zefon brand Bio-Pump™ equipped with an Allergenco-D™ cassette. Note that an air sample was also collected outdoors for comparison purposes. Additionally, surface samples were collected using Scotch® brand cellophane tape segments that were affixed to microscope slides. All such samples were subsequently analyzed for fungi (including yeasts, molds, rusts, smuts, and mushrooms) by trained and experienced microbiologists at a laboratory accredited by the American Industrial Hygiene Association (AIHA) and that successfully participates in the AIHA Environmental Microbiology Proficiency Analytical Testing (EMPAT) Program. The analytical data with supporting and background information appear in the enclosed Tables 20805001-6 and 20805001-7.

On the survey date, the airborne total fungi data recorded within the containment, as shown in Table 20805001-6, indicated only low levels of common fungi such as *Alternaria*, ascospores, *Cladosporium*, and/or smuts. The spore types detected indoors matched those found outdoors, and the overall spore count within the containment was well below the overall datum recorded outdoors. Similarly, as presented in Table 20805001-7, the surface sample data recorded on that day showed no evidence of fungal growth or above-background levels of fungal spores on any of the abated building materials surfaces tested. Collectively, these data do not represent conditions that are expected to pose a health

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hazard to occupants above that posed by the outside environment where exposures to airborne and surface-borne fungi are known to exist. The survey results therefore satisfy the clearance criteria for fungal growth established for this project.

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

Sincerely,

**HYGIENE TECHNOLOGIES INTERNATIONAL, INC.**

A handwritten signature in cursive script, appearing to read "Kenny K. Hsi", written over a horizontal line.

Kenny K. Hsi, CIH  
Technical Director

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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

# APPENDIX A



TABLE 20805001-6  
AIRBORNE TOTAL FUNGI RESULTS  
23<sup>RD</sup> FLOOR MEN'S RESTROOM  
CLEARANCE  
SACRAMENTO, CALIFORNIA  
MAY 23, 2008

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

SAMPLE NUMBER	20805001-TM01OUTWF	20805001-TM02CWF		
SAMPLING LOCATION/ACTIVITIES	Outdoors; 23 <sup>rd</sup> Floor; northern deck; about 15 feet north of building; approximately five feet above ground/Normal outdoor activities	Men's Restroom; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only	This column intentionally left blank	This column intentionally left blank
START/STOP	13:15:00/13:20:00	13:26:00/13:31:00		
SAMPLE TIME	5 minutes	5 minutes		
Alternaria	26	13		
Arthrinium				
Ascospores	100	13		
Aureobasidium				
Basidiospores	78			
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	720	52		
Curvularia				
Epicoccum				
Nigrospora				
Oidium	26			
Penicillium/Aspergillus types	140			
Pithomyces				
Rusts		13		
Smuts (Periconia, Myxomycetes)	220			
Stachybotrys				
Stemphylium				
Torula	26			
Ulocladium				
Unidentified mitosporic fungi	91			
Background particulates*	Moderate	Moderate		
<b>TOTAL**</b>	1,400	91		

P = Spores present

\*Background particulates is an indication of the amount of non-biological particulate matter present on the media and is graded (from least to greatest) as very light, light, moderate, heavy and very heavy.

\*\* Note that all reported counts have been rounded to no more than two significant figures based on the sampling and analytical methods used, and therefore the total count may not equal the sum of the individual counts in a column.

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

# APPENDIX A



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

**TABLE 20805001-7  
SURFACE FUNGAL GROWTH POTENTIALS  
23<sup>RD</sup> FLOOR MEN'S RESTROOM  
CLEARANCE  
SACRAMENTO, CALIFORNIA  
MAY 23, 2008**

SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	MISCELLANEOUS FUNGI/POLLEN*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
20805001-TL101CWF	Men's Restroom; southern dispenser soffit; eastern perimeter wall cavity; about center; from horizontal surface of metal stud rail	Very light dander  Very light fibers  Very light particulates	None	None	None	Background
20805001-TL102CWF	Men's Restroom; eastern perimeter wall cavity; about center; approximately six feet above floor; from vertical surface of metal stud	Very light dander  Very light fibers  Very light particulates	None	None	None	Background
20805001-TL103CWF	Men's Restroom; southern dispenser soffit; northern partition framing; about center; from horizontal surface of particle board	Very light dander  Very light fibers  Very light particulates	None	None	None	Background

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

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



**FINAL REPORT: Total Fungal Spore Trap Count**

**PROJECT NUMBER: 20805001**  
**Hygiene Technologies International, Inc.**  
Attention: Wes Frey  
4330 Auburn Blvd. Suite 1850  
Sacramento, CA 95841

**LABORATORY ID NUMBER: 0805076**  
Received Date: May 27, 2008  
Report Date: May 27, 2008

Customer Sample Number: - TM01OUTWF      Method: M101.1      Date Of Analysis: 27-May-08      Detection Limit: 13 Spores/M<sup>3</sup>  
Background: Moderate particulates      Sample Intact: Yes

Genus (species)	Raw Count	Total Spores / M <sup>3</sup>	Comment
<i>Alternaria</i>	2	26	
<i>Ascospores</i>	8	100	
<i>Basidiospores</i>	6	78	
<i>Cladosporium</i>	55	720	
<i>Oidium</i>	2	26	
<i>Penicillium/Aspergillus types</i>	11	140	
<i>Pollen</i>	9	120	
<i>Smuts/Myxomycetes</i>	17	220	
<i>Torula</i>	2	26	
<i>Unidentified mitosporic fungi</i>	7	91	
<b>TOTAL</b>	<b>110</b>	<b>1400</b>	

Customer Sample Number: -TM02CWF      Method: M101.1      Date Of Analysis: 27-May-08      Detection Limit: 13 Spores/M<sup>3</sup>  
Background: Moderate particulates      Sample Intact: Yes

Genus (species)	Raw Count	Total Spores / M <sup>3</sup>	Comment
<i>Alternaria</i>	1	13	
<i>Ascospores</i>	1	13	
<i>Cladosporium</i>	4	52	
<i>Rusts</i>	1	13	
<b>TOTAL</b>	<b>7</b>	<b>91</b>	

P = Spores Present

< (less than) = measurement below the reporting limit

Rounding: Note that all reported counts have been rounded to two significant figures based on the sampling and analytical methods used. BioHygiene Labs rounds such that if the last significant digit is an even number, then the result is rounded down to that digit; if the last significant digit is an odd number, then it is rounded up to the nearest even number. Thus the TOTAL may not equal the sum of the individual counts per column. TOTAL rows do not include pollen.

Background is graded as Very Light (0 - 10%), Light (>10 - 30%), Moderate (>30 - 70%), Heavy (>70 - 90%), and Very Heavy (>90%) Particulates as a percentage of the trace area.

APPROVED: [Signature]      DATE: 05-27-08  
Name Lucas Wallin      Title: Lab Analyst

**Results reported relate only to the sample items tested. This test report shall not be reproduced (except in full), corrected or added to without written approval from BioHygiene Laboratories, Inc.**

**FINAL REPORT: Direct Microscopic Exam Of Tape Lift Samples**

PROJECT NUMBER: 20805001

LABORATORY ID NUMBER: 0805076

Hygiene Technologies International, Inc.

Received Date: May 27, 2008

Attention: Wes Frey

Report Date: May 27, 2008

4330 Auburn Blvd. Suite 1850

Sacramento, CA 95841

Customer Sample Number	Date of Analysis	Method	Sample Intact	Amorphous Debris	Miscellaneous Fungi/Pollen <sup>1</sup>	Fungi with hyphal and /or sporulating structures <sup>2</sup>	Loose spores/ Other comments <sup>2</sup>
-TL101CWF	05/27/08	M102.1	Yes	Very light dander, Very light fibers, Very light particulates	None	None	None
-TL102CWF	05/27/08	M102.1	Yes	Very light dander, Very light fibers, Very light particulates	None	None	None
-TL103CWF	05/27/08	M102.1	Yes	Very light dander, Very light fibers, Very light particulates	None	None	None

1 - Includes basidiomycetes (mushroom spores), zygomycetes, plant pathogens such as ascogones, rusts and smuts, and a wide of saprophytic genera with no particular spore type predominating (indicative of normal trapping).

2 - Quantities of fungi are graded (from least to greatest) as a percentage of coverage of the slide area examined: none (0%), trace (0 - 10%), low (10 - 40%), numerous (40 - 80%), and massive (>80%).

APPROVED: [Signature] DATE: 05.27.08

Name Laura Walker Title: Lab Analyst

Results reported relate only to the sample items tested. This test report shall not be reproduced (except in full), corrected or added to without written approval from Biohygiene Laboratories, Inc.



# HYGIENE TECH

- 0805076

Hygiene Technologies International, Inc.

3525 Del Amo Boulevard, Suite 100  
Torrance, California 90503-1849  
(310) 370-8310  
(310) 370-2474 FAX  
www.hygienetech.com

## Request For Analysis

Project Number/Purchase Order: 2080500 Date Submitted: 5-23-08

Project Contact: Wes Fry Turnaround Required: 8 hr rush

Lab Destination: Bridgeway Labs Lab Contact: \_\_\_\_\_

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
<u>2080500 - THOROUTWF</u>	<u>75L</u>	<u>Slurped</u>	<u>M101.1</u>
<u>2080500 - THORCWF</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>2080500 - THORCWF</u>	<u>N/A</u>	<u>tape</u>	<u>M102.1</u>
<u>2080500 - THORCWF</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>RECEIVED 05-23-08</u>			

Special Instructions: \_\_\_\_\_

1. Sampled by: [Signature] 5-23-08 Received by: [Signature] on 5-23-08
2. Relinquished by: [Signature] 05-24-08 Received by: [Signature] 05-23-08 9:55
3. Relinquished by: [Signature] 05-23-08 Received by: [Signature] 05-23-08 11:50

Please include signature, date, and time

Lab Use Only:  
Completed on 05-27-08 Book 3209D-88 (-THOROUTWF, -THORCWF), Book 3190  
p. 306-32 (olawf) 85  
Completed on 05-27-08 at Lab 311 - Alora (Thora) [Signature]