



# HYGIENETECH

Hygiene Technologies International, Inc.

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November 15, 2010

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

Document No. 21004001.3

Attention: David Gau

Regarding: Fungal Growth Remediation Monitoring and Clearance Surveys  
6<sup>th</sup> Floor

Dear Mr. Gau:

On various dates in April of 2009, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) monitored fungal growth remediation activities and conducted fungal growth remediation clearance surveys on the 6<sup>th</sup> Floor of the State of California Board of Equalization (BOE) building located at 450 N Street in Sacramento, California. Fungal growth remediation was performed by JLS Environmental Services, Inc. (JLS) under the direction of LaCroix Davis, LLC (LCD), an industrial hygiene consulting firm contracted with the State of California Department of General Services (DGS). The fungal growth remediation protocols for the project were established by LCD and can be found in their document *State Board of Equalization Generic Floor Remediation Protocol, Rev 1* dated August 3, 2009.

During the surveys, air and surface samples were collected within the 6<sup>th</sup> Floor remediation enclosures and one additional air sample was collected at outdoor locations on specific survey dates for comparison purposes. Air samples were collected using a Zefon brand Bio-Pump™ equipped with Zefon Air-O-Cell™ cassettes. Surface samples were collected using either Zefon brand Bio-Tape™ surface samplers or 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 21004001-7 through 21004001-9.

Fungal growth remediation occurred in various areas of the 6<sup>th</sup> Floor including the Men's and Women's Restrooms, the Janitor Closet, Storage Rooms 6B, 6C, and 615, the northwestern drinking fountain area, Rooms 603, 612, 613, 614, and 616, Quiet Room 618, Conference Rooms 602 and 619, the northwestern hallway and the southeastern corner southern and eastern punch-out windows area. With the exception of western electrical closet area, where no building material removal took place, HygieneTech observed and documented the removal of fungal growth-contaminated building materials and decontamination of the remaining materials including but not limited to the exposed interior wall



cavity framing, proximate drywall not affected by fungal growth, ceilings, and subfloors. Additionally, all such work was performed within controlled negative pressure containments that were monitored with the use of manometers. Those control measures were utilized so that dispersion of airborne spores was limited to the enclosed areas. The surface assessment data with supporting and background information regarding the 6<sup>th</sup> Floor fungal growth abatement activities appear in the enclosed Table 21004001-7.

The surface assessment data collected during the remediation activities indicated fungal growth involving *Alternaria*, *Chaetomium*, *Cladosporium*, Colorless spores typical of *Penicillium* and *Aspergillus* species, *Penicillium*, *Stachybotrys*, *Torula*, and/or *Ulocladium* on various surfaces within the above mentioned remediation enclosures.

Following the completion of the fungal growth remediation activities, attempts were made to clear the enclosed work areas. Prior to the clearance surveys, visual inspections were performed within each of the enclosed work areas. By observation, all gross quantities of fungal growth had been removed from the fungal growth abatement areas. Note, however, that some of the fungal growth affected gypsum board materials found in the Men's Restroom, Women's Restroom, Janitor Closet, Storage Room 6B and 6C, northwestern hallway area, and the northern portion of the western electrical closet area were not removed during the remediation activities based on DGS's consultation with the Fire Marshall regarding removal of fire rated walls and/or due to walls being considered inaccessible by DGS and/or there consultants. Such walls were instead abraded as needed to remove surface fungal growth, wet wiped with a biocide solution, HEPA vacuumed, and then encapsulated with Foster® Full Defense™ (40-25) fungicidal protective coating. Areas showing water staining but no evidence of fungal growth were also painted with the Foster® Full Defense™ product.

On the clearance survey dates, the airborne total fungi data recorded indoors showed low levels of mostly common fungi including ascospores, basidiospores, *Cladosporium*, *Chaetomium*, colorless spores typical of *Penicillium* and *Aspergillus* species, *Nigrospora*, rusts, and/or smuts. The spore types detected indoors matched those found outdoors and the overall spore counts within the containments were well below the overall data recorded outdoors. Note, however, that on the April 20, 2010 survey date, an above-background level of colorless spores typical of *Penicillium* and *Aspergillus* species was found within Women's Restroom containment. Upon additional detail cleaning within that affected containment, another clearance survey was performed in the Women's Restroom on April 21, the results of which met the clearance criteria established for the project.

Historical data indicate that indoor spore levels usually average 30 to 80 percent of the outdoor spore level at the time of sampling, with the same general distribution of spore types. The overall indoor data recorded during the surveys did not exceed 16 percent of the outdoor data on any of the survey dates. Similarly, as shown in Table 21004001-9, the surface sample data recorded within the containments showed no evidence of fungal growth or above background levels of fungal spores on any of the building material surfaces tested. These data do not represent conditions that are expected to pose a health hazard to occupants above that posed by the outside environment where exposures to airborne and surface-borne fungi are known to exist. Collectively, the results of the surveys satisfy the clearance criteria for fungal growth established for this project and notification to that effect was provided to representatives of BOE, JLS, LCD, and DGS on the dates that the lab data were received.

Be advised that the data provided with this correspondence only represent fungal growth and exposure potentials that existed at the time the surveys were performed and at the precise locations only, the latter of which were selected based on the available background information provided, and 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 while no evidence



of additional fungal growth was seen at the time of the surveys, additional fungal growth may exist at one or more locations in the structure that were not specifically assessed during the surveys. And finally, the exposure data recorded during these surveys 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 entering the 6<sup>th</sup> Floor do experience non-specific ill effects, such as eye irritation, allergy symptoms, headache, or skin rash, then those affected should be referred to a medical professional in order to determine or specify the possible cause(s) of such reactions. If additional information becomes available, then further assessment may be warranted.

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

Sincerely,

**HYGIENE TECHNOLOGIES INTERNATIONAL, INC.**

A handwritten signature in black ink, appearing to read "Kenny K. Hsi", is written over a horizontal line.

Kenny K. Hsi, CIH  
Technical Director

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

# APPENDIX A



CLIENT: State of California  
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TABLE 21004001-7  
SURFACE FUNGAL GROWTH POTENTIALS  
ABATEMENT MONITORING  
6<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
APRIL, 2010

Page 1

DATE	SAMPLE NUMBER	SAMPLING LOCATION	BACKGROUND DEBRIS	MISCELLANEOUS SPORES PRESENT*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
04-16-10	21004001-7 TL61LS	Women's Restroom; within containment; western partition northern sink cabinetry interior; about center; from vertical surface of particle board	Heavy	Very few	None	None	Background
04-16-10	21004001-7 TL62LS	Women's Restroom; within containment; western partition wall at southern sink cabinetry; approximately 18 inches above floor; from vertical surface of gypsum board	Heavy	Very few	3+ <i>Torula</i> species (spores, hyphae, conidiophores)	None	Fungal growth
04-16-10	21004001-7 TL63LS	Women's Restroom; within containment; western partition wall cavity at northern end; approximately three feet above floor; from vertical surface of elevator shaft eastern partition wall gypsum board	Very heavy	Very few	None	None	Background
04-16-10	21004001-7 TL21RE	Men's Restroom; within containment; eastern partition northern sink cabinetry; countertop beneath sink; from horizontal surface of laminate wood	Very heavy	Very few	None	None	Background
04-16-10	21004001-7 TL22RE	Men's Restroom; within containment; eastern partition wall at central cabinetry area; approximately 12 inches above floor; from vertical surface of gypsum board	Very heavy	Very Few	3+ <i>Ulocladium</i> species (spores, hyphae, conidiophores)	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+.

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SACRAMENTO, CALIFORNIA  
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Page 2

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04-16-10	21004001-7 TL23RE	Men's Restroom; within containment; eastern partition wall at northern end; approximately one inch above floor; from vertical surface of gypsum board	Very heavy	Very few	None	None	Background
04-16-10	21004001-7 TL24RE	Men's Restroom; within containment; eastern partition wall cavity at northern end; approximately six inches above floor; from vertical surface of elevator shaft western partition wall gypsum board	Very heavy	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores)	None	Fungal growth
04-16-10	21004001-7 TL25RE	Men's Restroom; within containment; walk-in cavity north of northern towel dispenser; eastern partition wall cavity at southern end; approximately 12 inches above floor; from vertical surface of second layer of gypsum board	Moderate	Very few	4+ <i>Ulocladium</i> species (spores, hyphae, conidiophores)	None	Fungal growth
04-19-10	21004001-7 TL26RE	Men's Restroom; within containment; ceiling plenum; about four feet northwest of ceiling access hatch; from reverse side of gypsum board	Moderate	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores)  3+ <i>Ulocladium</i> species (spores, hyphae, conidiophores)	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).

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SACRAMENTO, CALIFORNIA  
APRIL, 2010

Page 3

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04-19-10	21004001-7 TL15SM	Storage Room 6C; within containment; ceiling plenum; about two feet east of access hatch; eastern partition wall; about center; approximately two feet above ceiling; from vertical surface of gypsum board	Light	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores)	Moderate amounts of colorless spores typical of <i>Penicillium</i> / <i>Aspergillus</i> detected.	Fungal growth
04-19-10	21004001-7 TL16SM	Storage Room 6C; within containment; ceiling plenum; northwestern corner; western partition wall; about two feet south of northern partition wall; approximately two feet above ceiling; from vertical surface of gypsum board	Light	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores)	None	Fungal growth
04-19-10	21004001-7 TL17SM	Storage Room 6C; within containment; ceiling plenum; northwestern corner; about two feet east of western partition wall and two feet south of northern partition wall; ceiling; from reverse side of ceiling gypsum board	Heavy	Very few	3+ <i>Alternaria</i> species (spores, hyphae, conidiophores)  2+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)  1+ Colorless spores typical of <i>Penicillium</i> / <i>Aspergillus</i> (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).

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ABATEMENT MONITORING  
6<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
APRIL, 2010

Page 4

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04-19-10	21004001-7 TL18SM	Storage Room 6C; within containment; ceiling plenum; northwestern corner; western partition wall cavity; about three feet south of northern partition wall; approximately two feet above ceiling; from vertical surface of second layer gypsum board	Light	Very few	4+ <i>Ulocladium</i> species (spores, hyphae, conidiophores)  3+ <i>Alternaria</i> species (spores, hyphae, conidiophores)  2+ <i>Chaetomium</i> species (ascospores, ascospores, hyphae)	None	Fungal growth
04-19-10	21004001-7 TL19SM	Storage Room 6C; within containment; ceiling plenum; northwestern corner; northern partition wall cavity; about six inches east of western partition wall; approximately two feet above ceiling; from reverse side of hallway southern partition wall gypsum board	Moderate	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores)  3+ <i>Ulocladium</i> species (spores, hyphae, conidiophores)  < 1+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	None	Fungal growth
04-20-10	21004001-7 TL27RE	Janitor Closet; within containment; water heater area; flooring along northern partition wall; about center; from horizontal surface of vinyl sheet flooring	Very heavy	Very few	None	Heavy amounts of dark amorphous particles detected not biological in appearance.	Background
04-20-10	21004001-7 TL28RE	Janitor Closet; within containment; ceiling about two feet of north of ceiling access hatch; from reverse side of previously removed gypsum board	Very heavy	Very few	None	Heavy amounts of dark amorphous particles detected not biological in appearance.	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).

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SURFACE FUNGAL GROWTH POTENTIALS  
ABATEMENT MONITORING  
6<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
APRIL, 2010

Page 5

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04-20-10	21004001-7 TL29RE	Janitor Closet; within containment; ceiling; about two feet northeast of ceiling access hatch; from reverse side of previously removed gypsum board	Very heavy	Very few	None	Heavy amounts of dark amorphous particles detected not biological in appearance.	Background
04-20-10	21004001-7 TL30RE	Janitor Closet; within containment; southern partition wall; about center; approximately one inch above floor; from vertical surface of gypsum board	Moderate	Very few	4+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae)  2+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Fungal growth
04-20-10	21004001-7 TL71LS	Storage Room 6B; within containment; northern partition wall; about two feet west of eastern partition wall; approximately one inch above floor; from vertical surface of gypsum board	Heavy	Very few	2+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae)  < 1+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Fungal growth
04-20-10	21004001-7 TL72LS	Storage Room 6B; within containment; ceiling at southeastern corner; from reverse side of previously removed gypsum board	Very heavy	Very few	None	Heavy amounts of dark amorphous particles detected. Not biological in appearance.  Very few <i>Chaetomium</i> spores detected	Possible settling from fungal growth in vicinity

\*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).

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SURFACE FUNGAL GROWTH POTENTIALS  
ABATEMENT MONITORING  
6<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
APRIL, 2010

Page 6

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04-20-10	21004001-7 TL73LS	Storage Room 6B; within containment; ceiling plenum; northern partition wall; about center; about three inches below deck; from reverse side of previously removed gypsum board	Very heavy	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores)	None	Fungal growth
04-21-10	21004001-7 TL74LS	Janitor Closet; within containment; ceiling cavity; about 12 inches south of northern partition wall; about center; from reverse side of gypsum board	Very heavy	Very few	None	None	Background
04-21-10	21004001-7 TL31RE	Janitor Closet; within containment; floor about five feet south of sink area; from reverse side of previously removed vinyl sheet flooring	Moderate	Very few	4+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	Heavy amounts of smut-like spores detected.	Fungal growth
04-21-10	21004001-7 TL20SM	Storage Room 616; within containment; eastern partition wall; about two feet south of northern partition wall; approximately two inches above floor; from vertical surface of gypsum board	Heavy	Very few	4+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae)  2+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Fungal growth
04-21-10	21004001-7 TL21SM	Room 614; within containment; eastern partition wall; about center; approximately one inch above floor; from reverse side of previously removed gypsum board	Very heavy	Very few	4+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (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).

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SACRAMENTO, CALIFORNIA  
APRIL, 2010

Page 7

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04-21-10	21004001-7 TL81LS	Storage Room 615; within containment; western partition wall at southwestern corner; approximately one inch above floor; from vertical surface of gypsum board	Heavy	Very few	4+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae)	None	Fungal growth
04-21-10	21004001-7 TL82LS	Room 613; within containment; western partition wall; about two feet south of northern partition wall; approximately one inch above floor; from vertical surface of gypsum board	Heavy	Very few	4+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae)  2+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Fungal growth
04-22-10	21004001-7 TL33RE	Southeastern corner; southern punch-out window; within containment; window jamb at western end; approximately one inch above window sill; from reverse side of previously removed gypsum board	Moderate	Very few	4+ <i>Stachybotrys</i> species (spores, hyphae, conidiophores)	None	Fungal growth
04-22-10	21004001-7 TL22SM	Quiet Room 618; within containment; northern partition wall; about one inch west of eastern partition wall; approximately one inch above floor; from vertical surface of gypsum board	Heavy	Very few	4+ <i>Penicillium</i> species (spores, hyphae, conidiophores)	None	Fungal growth

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SURFACE FUNGAL GROWTH POTENTIALS  
ABATEMENT MONITORING  
6<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
APRIL, 2010

Page 8

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04-22-10	21004001-7 TL23SM	Room 612; within containment; northern partition wall; about 30 inches east of Quiet Room 618 entry door; approximately one inch above floor; from vertical surface of gypsum board	Heavy	Very few	4+ <i>Penicillium</i> species (spores, hyphae, conidiophores)	None	Fungal growth
04-22-10	21004001-7 TL24SM	Quiet Room 618; within containment; eastern partition wall cavity; at southeastern corner; approximately one inch above floor; from reverse side of Room 612 western partition wall	Heavy	Very few	1+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Fungal growth
04-22-10	21004001-7 TL91LS	Quiet Room 618; within containment; southern partition wall; about two feet west of eastern partition wall cavity; approximately one inch above floor; from vertical surface of gypsum board	Very heavy	Very few	2+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Fungal growth
04-23-10	21004001-7 TL34RE	Southeastern corner; eastern punch-out window area; within containment; window sill at southern end; from reverse side of gypsum board	Heavy	Very few	4+ <i>Ulocladium</i> species (spores, hyphae, conidiophores)	None	Fungal growth

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SACRAMENTO, CALIFORNIA  
APRIL, 2010

Page 9

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04-23-10	21004001-7 TL35RE	Southeastern corner; eastern punch-out window area; within containment; Column J18 western wall at southwestern corner; approximately one inch above floor; from vertical surface of gypsum board	Heavy	Very few	4+ <i>Ulocladium</i> species (spores, hyphae, conidiophores)	None	Fungal growth
04-23-10	21004001-7 TL36RE	Northwestern hallway; within containment; northern partition wall cavity; about center; approximately two inches above floor; from reverse side of Conference Room 602 closet southern partition wall gypsum board	Heavy	Very few	None	None	Fungal growth
04-23-10	21004001-7 TL92LS	Quiet Room 618; within containment; northeastern corner; northern partition wall cavity; approximately one inch above floor; from reverse side of Conference Room 619 southern partition wall gypsum board	Very heavy	Very few	1+ <i>Penicillium</i> species (spores, hyphae, conidiophores)	None	Fungal growth
04-23-10	21004001-7 TL93LS	Conference Room 619; within containment; southern partition wall; about eight feet east of entry door; approximately one inch above floor; from vertical surface of gypsum board	Very heavy	Very few	None	None	Background

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

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Page 10

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04-23-10	21004001-7 TL94LS	Northwestern hallway; within containment; northern partition wall; about six feet northwest of Men's Restroom entry door; approximately one inch above floor; from vertical surface of gypsum board	Moderate	Very few	4+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae)  2+ Colorless spores typical of <i>Penicillium</i> / <i>Aspergillus</i> (spores, hyphae)	None	Fungal growth
04-23-10	21004001-7 TL95LS	Northwestern hallway; within containment; northern partition wall cavity; approximately two inches above floor; from reverse side of Conference Room 602 southern partition wall gypsum board	Moderate	Very few	4+ <i>Penicillium</i> species (spores, hyphae, conidiophores)	None	Fungal growth
04-23-10	21004001-7 TL96LS	Northwestern hallway; within containment; southern partition wall cavity; about eight feet east of stairwell entry; approximately one inch above floor; from vertical surface of second layer gypsum board	Heavy	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores)  3+ <i>Penicillium</i> species (spores, hyphae, conidiophores)	Very few <i>Chaetomium</i> spores detected.	Fungal growth

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

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

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

# APPENDIX A



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

**TABLE 21004001-8  
AIRBORNE TOTAL FUNGI RESULTS  
CLEARANCE  
6<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
APRIL, 2010**

Page 1

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

SAMPLE NUMBER	21004001-8 TM81OUTLS	21004001-8 TM82LS	21004001-8 TM81OUTSM	21004001-8 TM82SM
<b>SAMPLING LOCATION/ACTIVITIES</b>	Outdoors; about ten feet west of building; approximately five feet above ground/Normal outdoor activities	Women's Restroom; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only	Outdoors; southwestern corner of building; about 15 feet southwest of parking booth; 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
<b>DATE</b>	04-20-10	04-20-10	04-21-10	04-21-10
<b>START/STOP</b>	14:08:00/14:13:00	14:28:00/14:33:00	15:33:00/15:38:00	16:16:00/16:21:00
<b>SAMPLE TIME</b>	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria			13	
Ascospores	4,300	53	430	
Aureobasidium				
Basidiospores	800	53	2,800	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium		13		
Cladosporium	320	210	270	
Curvularia				
Epicoccum				
Nigrospora			13	
Oidium			40	
Other brown	13			
Penicillium/Aspergillus types		570	53	
Pithomyces				
Rusts	27	13	13	
Smuts, Periconia, Myxomycetes	680		67	13
Stachybotrys				
Stemphylium			13	
Torula				
Ulocladium				
Hyphal fragments	13	27	<13	13
Background debris*	2+	3+	1+	2+
<b>TOTAL**</b>	6,100	920***	3,700	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+.

\*\*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.

\*\*\* Data did not meet clearance criteria (subsequently passed on 04-21-10 TM83SM)

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

# APPENDIX A



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450 N Street  
Sacramento, California 94279

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AIRBORNE TOTAL FUNGI RESULTS  
CLEARANCE  
6<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
APRIL, 2010**

Page 2

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

SAMPLE NUMBER	21004001-8 TM83SM	21004001-8 TM84OUTSM	21004001-8 TM85SM	21004001-8 TM86SM
<b>SAMPLING LOCATION/ACTIVITIES</b>	Women's Restroom; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only	Outdoor; Junction of 4 <sup>th</sup> Street and O Street; approximately five feet above ground/Normal outdoor activities	Storage Room 6B; within containment; southeast corner; about center approximately five feet above floor/Post abatement; sampling activities only	Storage Room 6C; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only
<b>DATE</b>	04-21-10	04-22-10	04-22-10	04-22-10
<b>START/STOP</b>	16:32:00/16:37:00	15:01:00/15:06:00	15:21:00/15:26:00	15:29:00/15:34:00
<b>SAMPLE TIME</b>	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores		1,400		
Aureobasidium				
Basidiospores		11,000	53	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		4,300		
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types		110		
Rusts		13		
Smuts, Periconia, Myxomycetes		430	13	
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	13
Background debris*	2+	1+	3+	3+
<b>TOTAL**</b>	<13	17,000	67	<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+.

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AIRBORNE TOTAL FUNGI RESULTS  
CLEARANCE  
6<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
APRIL, 2010**

Page 3

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

SAMPLE NUMBER	21004001-8 TM77OUTLS	21004001-8 TM78LS	21004001-8 TM801OUTLS	21004001-8 TM802LS
<b>SAMPLING LOCATION/ACTIVITIES</b>	Outdoor; southwestern corner of building; approximately five feet above ground/Normal outdoor activities	Janitor Closet; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only	Outdoor; about ten feet southwest of building; approximately five feet above ground/Normal outdoor activities	Southeastern corner; southern punch-out window area; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only
<b>DATE</b>	04-23-10	04-23-10	04-24-10	04-24-10
<b>START/STOP</b>	15:16:00/15:21:00	15:37:00/15:32:00	11:39:00/11:44:00	12:00:00/12:05:00
<b>SAMPLE TIME</b>	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	53		27	
Ascospores	1,100		1,000	
Aureobasidium				
Basidiospores	9,400		9,700	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium		13		
Cladosporium	910		2,300	
Curvularia				
Epicoccum				
Nigrospora				
Oidium	67		40	
Other brown				
Penicillium/Aspergillus types	270		430	
Rusts	13		67	
Smuts, Periconia, Myxomycetes	93		2,500	
Stachybotrys				
Stemphylium	13		27	
Torula			13	
Ulocladium				
Hyphal fragments	13	<13	40	<13
Background debris*	2+	4+	2+	1+
<b>TOTAL **</b>	12,000	13	16,000	<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+.

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AIRBORNE TOTAL FUNGI RESULTS  
CLEARANCE  
6<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
APRIL, 2010**

Page 4

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

SAMPLE NUMBER	21004001-8 TM803LS	21004001-8 TM804LS	21004001-8 TM805LS	21004001-8 TM806LS
<b>SAMPLING LOCATION/ACTIVITIES</b>	Room 612 within containment; northwestern corner adjacent to Storage Room 616; about center; approximately five feet above floor/Post abatement; sampling activities only	Room 614 ; within containment; southwestern corner adjacent to Room 613; about center; approximately five feet above floor/Post abatement; sampling activities only	Storage Room 615; within containment; northwestern corner adjacent to Room 612; about center; approximately five feet above floor/Post abatement sampling activities only	Southeastern corner; eastern punch-out window area; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only
<b>DATE</b>	04-24-10	04-24-10	04-24-10	04-24-10
<b>START/STOP</b>	12:14:00/12:19:00	12:22:00/12:27:00	12:31:00/12:36:00	14:43:00/14:48:00
<b>SAMPLE TIME</b>	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores		53		
Aureobasidium				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium				
Curvularia				
Epicoccum				
Nigrospora			13	
Oidium				
Other brown				
Penicillium/Aspergillus types	53			
Rusts				
Smuts, Periconia, Myxomycetes				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	<13
Background debris*	4+	4+	4+	3+
<b>TOTAL**</b>	53	53	13	<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+.

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# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

# APPENDIX A



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Sacramento, California 94279

TABLE 21004001-8  
AIRBORNE TOTAL FUNGI RESULTS  
CLEARANCE  
6<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
APRIL, 2010

Page 5

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

SAMPLE NUMBER	21004001-8 TM807LS	21004001-8 TM808OUTLS	21004001-8 TM87OUTSM	21004001-8 TM88SM
<b>SAMPLING LOCATION/ACTIVITIES</b>	Quiet Room 618; within containment; northern end adjacent to Conference Room 619; about center; approximately five feet above floor/Post abatement; sampling activities only	Outdoor; about ten feet south of building; approximately five feet above ground/Normal outdoor activities	Outdoor; southwestern corner of building; about 15 feet southwest of parking booth; approximately five feet above ground/Normal outdoor activities	Northern hallway adjacent to Conference Room 602; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only
<b>DATE</b>	04-24-10	04-24-10	04-26-10	04-26-10
<b>START/STOP</b>	14:58:00/15:03:00	15:18:00/15:23:00	08:34:00/08:39:00	09:03:00/09:08:00
<b>SAMPLE TIME</b>	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria		80	13	
Ascospores		320	640	
Aureobasidium				
Basidiospores		5,200	12,000	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		1,700	910	
Curvularia				
Epicoccum				
Nigrospora				
Oidium			27	
Other brown				
Penicillium/Aspergillus types		370	1,200	110
Rusts		410		
Smuts, Periconia, Myxomycetes		230	40	
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	40	<13
Background debris*	3+	2+	2+	3+
<b>TOTAL**</b>	<13	8,300	15,000	110

\*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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Sacramento, California 94279

**TABLE 21004001-8  
AIRBORNE TOTAL FUNGI RESULTS  
CLEARANCE  
6<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
APRIL, 2010**

Page 6

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

SAMPLE NUMBER	21004001-8 TM89OUTSM	21004001-8 TM90SM		
SAMPLING LOCATION/ACTIVITIES	Outdoor; southwestern corner of building; about 15 feet southwest of parking booth; approximately five feet above ground/Normal outdoor activities	Western electrical closet area; northern closet; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only	This column intentionally left blank	This column intentionally left blank
DATE	04-27-10	04-27-10		
START/STOP	15:35:00/15:40:00	15:53:00/15:58:00		
SAMPLE TIME	5 minutes	5 minutes		
Alternaria	13			
Ascospores	1,100			
Aureobasidium				
Basidiospores	2,800			
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	530			
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types	210			
Rusts	13			
Smuts, Periconia,	93			
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13		
Background debris*	1+	<1+		
<b>TOTAL**</b>	<b>4,800</b>	<b>&lt;13</b>		

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

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# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

# APPENDIX A



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

**TABLE 21004001-9  
SURFACE FUNGAL GROWTH POTENTIALS  
CLEARANCE  
6<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
APRIL, 2010**

Page 1

DATE	SAMPLE NUMBER	SAMPLING LOCATION	BACKGROUND DEBRIS	MISCELLANEOUS SPORES PRESENT*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
04-20-10	21004001-9 TL81LS	Women's Restroom; within containment; western partition wall cavity; about center; approximately 12 inches above floor; from vertical surface of metal framing	Light	Very few	None	None	Background
04-20-10	21004001-9 TL82LS	Women's Restroom; within containment; floor along western partition wall cavity; about center; from horizontal surface of ceramic tile	Light	Very few	None	None	Background
04-21-10	21004001-9 TL31SM	Men's Restroom; within containment; sink area; eastern partition wall cavity; about two inches south of northern towel dispenser area; approximately one inch above floor; from vertical surface of metal stud rail	Heavy	Very few	None	Moderate amounts of dark amorphous particles detected. not biological in appearance	Background
04-21-10	21004001-9 TL32SM	Men's Restroom; within containment; floor; about two feet north of southern partition wall and two inches west of southern towel dispenser area; from horizontal surface of ceramic tile	Moderate	Very few	None	None	Background
04-21-10	21004001-9 TL33SM	Men's Restroom; within containment; ceiling plenum; about six feet northwest of ceiling access hatch and five south of northern partition wall; approximately one inch above ceiling; from vertical surface of metal framing	Moderate	Very few	None	None	Background

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

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

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

# APPENDIX A



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

TABLE 21004001-9  
SURFACE FUNGAL GROWTH POTENTIALS  
CLEARANCE  
6<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
APRIL, 2010

Page 2

DATE	SAMPLE NUMBER	SAMPLING LOCATION	BACKGROUND DEBRIS	MISCELLANEOUS SPORES PRESENT*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
04-22-10	21004001-9 TL34SM	Storage Room 6C; within containment; northern partition wall cavity; about one inch west of eastern partition wall; from horizontal surface metal base plate	Heavy	Very few	None	Heavy amounts of dark amorphous particles detected, not biological in appearance.	Background
04-22-10	21004001-9 TL35SM	Storage Room 6C; within containment; northern partition wall cavity; about one feet west of eastern partition wall; approximately one inch above floor; from vertical surface of metal stud	Light	Very few	None	None	Background
04-22-10	21004001-9 TL36SM	Storage Room 6C; within containment; ; ceiling plenum; eastern partition wall; about six feet north of southern partition wall; approximately one inch above ceiling; from vertical surface of metal framing	Light	Very few	None	None	Background
04-22-10	21004001-9 TL37SM	Storage Room 6B; within containment; northern partition wall cavity; about three feet east of western partition wall; from horizontal surface of metal stud rail	Moderate	Very few	None	Very few <i>Chaetomium</i> spores detected.	Background
04-22-10	21004001-9 TL38SM	Storage Room 6B; within containment; northern partition wall cavity; about three feet west of eastern partition wall; approximately one inch above floor; from vertical surface of metal stud	Moderate	Very few	None	None	Background

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

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

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CLEARANCE  
6<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
APRIL, 2010**

Page 3

DATE	SAMPLE NUMBER	SAMPLING LOCATION	BACKGROUND DEBRIS	MISCELLANEOUS SPORES PRESENT*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
04-22-10	21004001-9 TL39SM	Storage Room 6B; within containment; ; ceiling plenum; western partition wall; about six feet south of northern partition wall; approximately one inch above ceiling; from vertical surface of metal framing	Light	Very few	None	None	Background
04-23-10	21004001-9 TL77LS	Janitor Closet; within containment; subfloor; about five feet south of sink area; from horizontal surface of concrete	Heavy	Very few	None	None	Background
04-23-10	21004001-9 TL78LS	Janitor Closet; within containment; sink area; northern partition wall cavity; about center; approximately one inch above floor; from vertical surface of metal stud rail	Light	Very few	None	None	Background
04-24-10	21004001-9 TL801LS	Southeastern corner; southern punch-out window area; within containment; windowsill at western end; from horizontal surface of metal	Light	Very few	None	None	Background
04-24-10	21004001-9 TL802LS	Southeastern corner; southern punch-out window area; within containment; window jamb at western end; from vertical surface of metal	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+.

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SACRAMENTO, CALIFORNIA  
APRIL, 2010

Page 4

DATE	SAMPLE NUMBER	SAMPLING LOCATION	BACKGROUND DEBRIS	MISCELLANEOUS SPORES PRESENT*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
04-24-10	21004001-9 TL803LS	Room 612; within containment; western partition wall cavity; contiguous with Room 614 & Storage Room 616; about center; approximately one inch above floor; from vertical surface of metal stud	Moderate	Very few	None	None	Background
04-24-10	21004001-9 TL804LS	Storage Room 616; within containment; eastern partition wall cavity; about center; approximately two inches above floor; from vertical surface of metal stud rail	Heavy	Very few	None	None	Background
04-24-10	21004001-9 TL805LS	Room 614; within containment; northern partition wall cavity at northwestern corner; approximately one inch above floor; from vertical surface of metal stud rail	Heavy	Very few	None	None	Background
04-24-10	21004001-9 TL806LS	Storage Room 615; within containment; eastern partition wall cavity; about three feet north of southern partition wall cavity; from horizontal surface of metal stud rail	Moderate	Very few	None	None	Background
04-24-10	21004001-9 TL807LS	Storage Room 615; within containment; western partition wall cavity; about center; from horizontal surface of metal stud rail	Moderate	Very few	None	None	Background

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

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

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SACRAMENTO, CALIFORNIA  
APRIL, 2010

Page 5

DATE	SAMPLE NUMBER	SAMPLING LOCATION	BACKGROUND DEBRIS	MISCELLANEOUS SPORES PRESENT*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
04-24-10	21004001-9 TL808LS	Room 613; within containment; northern partition wall cavity at northwestern corner; approximately one inch above floor; from vertical surface of metal stud rail	Moderate	Very few	None	None	Background
04-24-10	21004001-9 TL809LS	Southeastern corner; eastern punch-out window area; within containment; windowsill at southern end; from horizontal surface of metal	Moderate	Very few	None	None	Background
04-24-10	21004001-9 TL810LS	Southeastern corner; eastern punch-out window area; within containment; Column J18; western partition wall; about center; approximately three feet above floor; from vertical surface of gypsum board	Light	Very few	None	None	Background
04-24-10	21004001-9 TL811LS	Room 612; within containment; northern partition wall cavity contiguous with Quiet Room 618; about center; approximately one inch above floor; from vertical surface of metal stud rail	Heavy	Very few	None	None	Background
04-24-10	21004001-9 TL812LS	Quiet Room 618; within containment; eastern partition wall cavity; about center; approximately one inch above floor; from horizontal surface of metal stud rail	Moderate	Very few	None	None	Background

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

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

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CLEARANCE  
6<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
APRIL, 2010

Page 6

DATE	SAMPLE NUMBER	SAMPLING LOCATION	BACKGROUND DEBRIS	MISCELLANEOUS SPORES PRESENT*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
04-24-10	21004001-9 TL813LS	Conference Room 619; within containment; southern partition wall cavity at southeastern corner; approximately two inches above floor; from vertical surface of metal stud	Light	Very few	None	None	Background
04-26-10	21004001-9 TL40SM	Northwestern hallway; within containment; southern partition wall; about one foot east of northwestern stairwell door; approximately two feet above floor; from vertical surface of gypsum board	Light	Very few	None	None	Background
04-26-10	21004001-9 TL41SM	Conference Room 602; southeastern corner; within containment; southern partition wall cavity; about center; approximately one inch above floor; from horizontal surface of metal stud rail	Light	Very few	None	None	Background
04-26-10	21004001-9 TL42SM	Room 603; within containment; subfloor; about three feet southeast of entry door; approximately one inch north of southern partition wall cavity; about center; from horizontal surface of concrete	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.

# APPENDIX A



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

TABLE 21004001-9  
SURFACE FUNGAL GROWTH POTENTIALS  
CLEARANCE  
6<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
APRIL, 2010

Page 7

DATE	SAMPLE NUMBER	SAMPLING LOCATION	BACKGROUND DEBRIS	MISCELLANEOUS SPORES PRESENT*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
04-27-10	21004001-9 TL43SM	Western electrical closet area; northern closet; within containment; eastern partition wall; about one foot south of northern partition wall; approximately 12 feet above floor; from vertical surface of gypsum board	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+.



Report for:

**Mr. Wesley Frey, Mr. Larry Sandhu**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

---

Regarding: Project: 21004001-7  
EML ID: 649289

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 04-20-2010

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

---

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. Wesley Frey, Mr. Larry Sandhu  
 Re: 21004001-7

Date of Sampling: 04-16-2010  
 Date of Receipt: 04-19-2010  
 Date of Report: 04-20-2010

**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‡: 2877060-1: Tape sample 21004001-7-TL21RE				
Very Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 2877061-1: Tape sample 21004001-7-TL22RE				
Very Heavy	Very few	3+ <i>Ulocladium</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2877062-1: Tape sample 21004001-7-TL23RE				
Very Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 2877063-1: Tape sample 21004001-7-TL24RE				
Very Heavy	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2877064-1: Tape sample 21004001-7-TL25RE				
Moderate	Very few	4+ <i>Ulocladium</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2877065-1: Tape sample 21004001-7-TL61LS				
Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 2877066-1: Tape sample 21004001-7-TL62LS				
Heavy	Very few	3+ <i>Torula</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2877067-1: Tape sample 21004001-7-TL63LS				
Very Heavy	Very few	None	None	Normal trapping

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".



Report for:

**Mr. Wesley Frey, Mr. Syed Mehdi**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

---

Regarding: Project: 21004001-7  
EML ID: 649976

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 04-21-2010

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

---

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Document Number: 200091 - Revision Number: 5

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Client: Hygiene Technologies International, Inc.:  
Northern California  
C/O: Mr. Wesley Frey, Mr. Syed Mehdi  
Re: 21004001-7

Date of Sampling: 04-19-2010  
Date of Receipt: 04-20-2010  
Date of Report: 04-21-2010

**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‡: 2880357-1: Tape sample 21004001-7-TL15SM				
Light	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores)	Moderate amounts of colorless spores typical of <i>Penicillium/Aspergillus</i> detected.	Mold growth
Lab ID-Version: 2880358-1: Tape sample 21004001-7-TL16SM				
Light	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2880359-1: Tape sample 21004001-7-TL17SM				
Heavy	Very few	3+ <i>Alternaria</i> species (spores, hyphae, conidiophores) 2+ <i>Cladosporium</i> species (spores, hyphae, conidiophores) 1+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Mold growth
Lab ID-Version: 2880360-1: Tape sample 21004001-7-TL18SM				
Light	Very few	4+ <i>Ulocladium</i> species (spores, hyphae, conidiophores) 3+ <i>Alternaria</i> species (spores, hyphae, conidiophores) 2+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae)	None	Mold growth
Lab ID-Version: 2880361-1: Tape sample 21004001-7-TL19SM				
Moderate	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores) 3+ <i>Ulocladium</i> species (spores, hyphae, conidiophores) < 1+ <i>Cladosporium</i> species (spores, hyphae, conidiophores)	None	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‡: 2880362-1: Tape sample 21004001-7-TL26RE				
Moderate	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores) 3+ <i>Ulocladium</i> species (spores, hyphae, conidiophores)	None	Mold growth

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".



Report for:

**Mr. Wesley Frey, Mr. Larry Sandhu**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

---

Regarding: Project: 21004001-7  
EML ID: 650130

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 04-21-2010

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

---

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

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Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu  
 Re: 21004001-7

Date of Sampling: 04-20-2010  
 Date of Receipt: 04-20-2010  
 Date of Report: 04-21-2010

**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‡: 2881019-1: Tape sample 21004001-7-TL27RE				
Very Heavy	Very few	None	Heavy amounts of dark amorphous particles detected, not biological in appearance.	Normal trapping
Lab ID-Version: 2881020-1: Tape sample 21004001-7-TL28RE				
Very Heavy	Very few	None	Heavy amounts of dark amorphous particles detected, not biological in appearance.	Normal trapping
Lab ID-Version: 2881021-1: Tape sample 21004001-7-TL29RE				
Very Heavy	Very few	None	Heavy amounts of dark amorphous particles detected, not biological in appearance.	Normal trapping
Lab ID-Version: 2881022-1: Tape sample 21004001-7-TL30RE				
Moderate	Very few	4+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae) 2+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Mold growth
Lab ID-Version: 2881023-1: Tape sample 21004001-7-TL71LS				
Heavy	Very few	2+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae) < 1+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Mold growth
Lab ID-Version: 2881024-1: Tape sample 21004001-7-TL72LS				
Very Heavy	Very few	None	Heavy amounts of dark amorphous particles detected, not biological in appearance. Very few <i>Chaetomium</i> spores detected.	Mold growth in vicinity?

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‡: 2881025-1: Tape sample 21004001-7-TL73LS				
Very Heavy	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores)	None	Mold growth

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".



Report for:

**Mr. Wesley Frey, Mr. Larry Sandhu**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

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Regarding: Project: 21004001-7  
EML ID: 650809

Approved by:

Lab Manager  
Malcolm Moody

REVISED REPORT

Dates of Analysis:  
Direct microscopic exam (Qualitative): 10-19-2010

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

---

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. Wesley Frey, Mr. Larry Sandhu  
 Re: 21004001-7

Date of Sampling: 04-21-2010  
 Date of Receipt: 04-22-2010  
 Date of Report: 04-23-2010

**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‡: 2885132-2: Tape sample 21004001-7-TL20SM				
Heavy	Very few	4+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae) 2+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Mold growth
Lab ID-Version: 2885133-2: Tape sample 21004001-7-TL21SM				
Very Heavy	Very few	4+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Mold growth
Lab ID-Version: 2885134-2: Tape sample 21004001-7-TL81LS				
Heavy	Very few	4+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae)	None	Mold growth
Lab ID-Version: 2885135-2: Tape sample 21004001-7-TL82LS				
Heavy	Very few	4+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae) 2+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Mold growth
Lab ID-Version: 2885136-2: Tape sample 21004001-7-TL74LS				
Very Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 2885137-2: Tape sample 21004001-7-TL31RE				
Moderate	Very few	4+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	Heavy amounts of smut-like spores detected.	Mold growth

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".



Report for:

**Mr. Wesley Frey, Mr. Syed Mehdi**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

---

Regarding: Project: 21004001-7  
EML ID: 651270

Approved by:

Lab Manager  
Malcolm Moody

REVISED REPORT

Dates of Analysis:  
Direct microscopic exam (Qualitative): 10-19-2010

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

---

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Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wesley Frey, Mr. Syed Mehdi  
 Re: 21004001-7

Date of Sampling: 04-22-2010  
 Date of Receipt: 04-23-2010  
 Date of Report: 04-26-2010

**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‡: 2887599-2: Tape sample 21004001-7-TL22SM				
Heavy	Very few	4+ <i>Penicillium</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2887600-2: Tape sample 21004001-7-TL23SM				
Heavy	Very few	4+ <i>Penicillium</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2887601-2: Tape sample 21004001-7-TL33RE				
Moderate	Very few	4+ <i>Stachybotrys</i> species (spores, hyphae, conidiophores)	None	Mold growth

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".



Report for:

**Mr. Wesley Frey, Mr. Larry Sandhu**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

---

Regarding: Project: 21004001-7  
EML ID: 651064

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 04-22-2010

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

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Document Number: 200091 - Revision Number: 5

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Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu  
 Re: 21004001-7

Date of Sampling: 04-22-2010  
 Date of Receipt: 04-22-2010  
 Date of Report: 04-22-2010

**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‡: 2886309-1: Tape sample 21004001-7-TL24SM				
Heavy	Very few	1+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Mold growth
Lab ID-Version: 2886310-1: Tape sample 21004001-7-TL91LS				
Very Heavy	Very few	2+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Mold growth

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".



Report for:

**Mr. Wesley Frey, Mr. Larry Sandhu**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

---

Regarding: Project: 21004001-7  
EML ID: 651522

Approved by:

Lab Manager  
Malcolm Moody

REVISED REPORT

Dates of Analysis:  
Direct microscopic exam (Qualitative): 10-19-2010

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

---

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Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu  
 Re: 21004001-7

Date of Sampling: 04-23-2010  
 Date of Receipt: 04-23-2010  
 Date of Report: 04-23-2010

**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‡: 2888660-2: Tape sample 21004001-7-TL95LS				
Moderate	Very few	4+ <i>Penicillium</i> species (spores, hyphae, conidiophores)	None	Mold growth

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".



Report for:

**Mr. Wesley Frey, Mr. Larry Sandhu**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

---

Regarding: Project: 21004001-7  
EML ID: 651893

Approved by:

Lab Manager  
Malcolm Moody

REVISED REPORT

Dates of Analysis:  
Direct microscopic exam (Qualitative): 10-19-2010

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

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Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu  
 Re: 21004001-7

Date of Sampling: 04-26-2010  
 Date of Receipt: 04-26-2010  
 Date of Report: 04-27-2010

**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‡: 2890173-2: Tape sample 21004001-7-TL34RE				
Heavy	Very few	4+ <i>Ulocladium</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2890174-2: Tape sample 21004001-7-TL35RE				
Heavy	Very few	4+ <i>Ulocladium</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2890175-2: Tape sample 21004001-7-TL36RE				
Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 2890176-2: Tape sample 21004001-7-TL92LS				
Very Heavy	Very few	1+ <i>Penicillium</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2890177-2: Tape sample 21004001-7-TL93LS				
Very Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 2890178-2: Tape sample 21004001-7-TL94LS				
Moderate	Very few	4+ <i>Chaetomium</i> species (ascospores, ascomata, hyphae) 2+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Mold growth
Lab ID-Version: 2890179-2: Tape sample 21004001-7-TL96LS				
Heavy	Very few	4+ <i>Alternaria</i> species (spores, hyphae, conidiophores) 3+ <i>Penicillium</i> species (spores, hyphae, conidiophores)	Very few <i>Chaetomium</i> spores detected.	Mold growth

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".



















Report for:

**Mr. Wesley Frey, Mr. Larry Sandhu**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

---

Regarding: Project: 21004001 - 8 & 9  
EML ID: 650129

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Spore trap analysis: 04-21-2010

Service SOPs: Spore trap analysis (I100000)

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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

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Client: Hygiene Technologies International, Inc.:  
Northern California  
C/O: Mr. Wesley Frey, Mr. Larry Sandhu  
Re: 21004001 - 8 & 9

Date of Sampling: 04-20-2010  
Date of Receipt: 04-20-2010  
Date of Report: 04-21-2010

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

Location:	21004001-8-TM81OUTLS		21004001-8-TM82LS	
Comments (see below)	None		A	
Lab ID-Version‡:	2881010-1		2881011-1	
	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria				
Arthrinium				
Ascospores*	80	4,300	1	53
Aureobasidium				
Basidiospores*	15	800	1	53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium			1	13
Cladosporium	6	320	4	210
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Other brown	1	13		
Other colorless				
Penicillium/Aspergillus types†			16	570
Pithomyces				
Rusts*	2	27	1	13
Smuts*, Periconia, Myxomycetes*	51	680		
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Background debris (1-4+)††	2+		3+	
Hyphal fragments/m3	13		27	
Pollen/m3	93		13	
Skin cells (1-4+)	< 1+		1+	
Sample volume (liters)	75		75	
<b>§ TOTAL SPORES/m3</b>		<b>6,100</b>		<b>920</b>

**Comments:**A) 7 of the raw count *Penicillium/Aspergillus* type spores were present as a single clump.

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

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acromonium*, *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" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.



Report for:

**Mr. Wesley Frey, Mr. Larry Sandhu**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

---

Regarding: Project: 21004001 - 8 & 9  
EML ID: 650129

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 04-21-2010

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

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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

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Client: Hygiene Technologies International, Inc.:  
Northern California  
C/O: Mr. Wesley Frey, Mr. Larry Sandhu  
Re: 21004001 - 8 & 9

Date of Sampling: 04-20-2010  
Date of Receipt: 04-20-2010  
Date of Report: 04-21-2010

**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‡: 2881008-1: Tape sample 21004001-9-TL81LS				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2881009-1: Tape sample 21004001-9-TL82LS				
Light	Very few	None	None	Normal trapping

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".



Report for:

**Mr. Wesley Frey, Mr. Syed Mehdi**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

---

Regarding: Project: 21004001-8 and 9  
EML ID: 650807

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Spore trap analysis: 04-22-2010

Service SOPs: Spore trap analysis (I100000)

---

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

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Client: Hygiene Technologies International, Inc.:  
Northern California  
C/O: Mr. Wesley Frey, Mr. Syed Mehdi  
Re: 21004001-8 and 9

Date of Sampling: 04-21-2010  
Date of Receipt: 04-22-2010  
Date of Report: 04-22-2010

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

Location:	21004001-8-TM81OUTSM		21004001-8-TM82SM		21004001-8-TM83SM	
Comments (see below)	None		None		A	
Lab ID-Version‡:	2885114-1		2885115-1		2885116-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	1	13				
Arthrinium						
Ascospores*	8	430				
Aureobasidium						
Basidiospores*	52	2,800				
Bipolaris/Drechslera group						
Botrytis						
Chaetomium						
Cladosporium	5	270				
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora	1	13				
Oidium	3	40				
Penicillium/Aspergillus types†	1	53				
Pithomyces						
Rusts*	1	13				
Smuts*, Periconia, Myxomycetes*	5	67	1	13		
Stachybotrys						
Stemphylium	1	13				
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	1+		2+		2+	
Hyphal fragments/m3	< 13		13		< 13	
Pollen/m3	67		< 13		< 13	
Skin cells (1-4+)	< 1+		< 1+		< 1+	
Sample volume (liters)	75		75		75	
<b>§ TOTAL SPORES/m3</b>		<b>3,700</b>		<b>13</b>		<b>&lt; 13</b>

Comments: A) No spores detected.

\* 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" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.



Report for:

**Mr. Wesley Frey, Mr. Syed Mehdi**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

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Regarding: Project: 21004001-8 and 9  
EML ID: 650807

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 04-22-2010

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

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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

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Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wesley Frey, Mr. Syed Mehdi  
 Re: 21004001-8 and 9

Date of Sampling: 04-21-2010  
 Date of Receipt: 04-22-2010  
 Date of Report: 04-22-2010

**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‡: 2885111-1: Tape sample 21004001-9-TL31SM				
Heavy	Very few	None	Moderate amounts of dark amorphous particles detected, not biological in appearance.	Normal trapping
Lab ID-Version: 2885112-1: Tape sample 21004001-9-TL32SM				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 2885113-1: Tape sample 21004001-9-TL33SM				
Moderate	Very few	None	None	Normal trapping

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".



Report for:

**Mr. Wesley Frey, Mr. Syed Mehdi**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

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Regarding: Project: 21004001-8 and 9  
EML ID: 651267

Approved by:

Lab Manager  
Malcolm Moody

REVISED REPORT

Dates of Analysis:  
Direct microscopic exam (Qualitative): 04-23-2010 to 09-09-2010

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

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All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank 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. Wesley Frey, Mr. Syed Mehdi  
 Re: 21004001-8 and 9

Date of Sampling: 04-22-2010  
 Date of Receipt: 04-23-2010  
 Date of Report: 04-23-2010

**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‡: 2887576-1: Tape sample 21004001-9-TL34SM				
Heavy	Very few	None	Heavy amounts of dark amorphous particles detected, not biological in appearance.	Normal trapping
Lab ID-Version: 2887577-1: Tape sample 21004001-9-TL35SM				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2887578-1: Tape sample 21004001-9-TL36SM				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2887579-1: Tape sample 21004001-9-TL37SM				
Moderate	Very few	None	Very few <i>Chaetomium</i> spores detected.	Mold growth in vicinity?
Lab ID-Version: 2887580-2: Tape sample 21004001-9-TL38SM				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 2887581-2: Tape sample 21004001-9-TL39SM				
Light	Very few	None	None	Normal trapping

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".



Report for:

**Mr. Wesley Frey, Mr. Syed Mehdi**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

---

Regarding: Project: 21004001-8 and 9  
EML ID: 651267

Approved by:

Lab Manager  
Malcolm Moody

REVISED REPORT

Dates of Analysis:  
Spore trap analysis: 09-09-2010

Service SOPs: Spore trap analysis (1038)

---

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. Wesley Frey, Mr. Syed Mehdi  
 Re: 21004001-8 and 9

Date of Sampling: 04-22-2010  
 Date of Receipt: 04-23-2010  
 Date of Report: 04-23-2010

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

Location:	21004001-8-TM84OUTSM		21004001-8-TM85SM		21004001-8-TM86SM	
Comments (see below)	A		None		B	
Lab ID-Version‡:	2887582-2		2887583-2		2887584-2	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Arthrinium						
Ascospores*	26	1,400				
Aureobasidium						
Basidiospores*	210	11,000	1	53		
Bipolaris/Drechslera group						
Botrytis						
Chaetomium						
Cladosporium	156	4,300				
Curvularia						
Epicoccum						
Myrothecium						
Nigrospora						
Penicillium/Aspergillus types†	2	110				
Pithomyces						
Rusts*	1	13				
Smuts*, Periconia, Myxomycetes*	32	430	1	13		
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	1+		3+		3+	
Hyphal fragments/m3	< 13		< 13		13	
Pollen/m3	80		< 13		13	
Skin cells (1-4+)	< 1+		< 1+		< 1+	
Sample volume (liters)	75		75		75	
<b>§ TOTAL SPORES/m3</b>		<b>17,000</b>		<b>67</b>		<b>&lt; 13</b>

**Comments:** A) 100 of the raw count *Cladosporium* spores were present as a clump of 49 and a clump of 51 spores. B) No spores detected.

\* 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" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.



Report for:

**Mr. Wesley Frey, Mr. Larry Sandhu**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

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Regarding: Project: 21004001-8 and 9  
EML ID: 651654

Approved by:

Lab Manager  
Malcolm Moody

REVISED REPORT

Dates of Analysis:  
Direct microscopic exam (Qualitative): 09-09-2010

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

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All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank 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. Wesley Frey, Mr. Larry Sandhu  
 Re: 21004001-8 and 9

Date of Sampling: 04-23-2010  
 Date of Receipt: 04-23-2010  
 Date of Report: 04-23-2010

**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‡: 2889350-2: Tape sample 21004001-9-TL77LS				
Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 2889351-2: Tape sample 21004001-9-TL78LS				
Light	Very few	None	None	Normal trapping

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".



Report for:

**Mr. Wesley Frey, Mr. Larry Sandhu**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

---

Regarding: Project: 21004001-8 and 9  
EML ID: 651654

Approved by:

Lab Manager  
Malcolm Moody

REVISED REPORT

Dates of Analysis:  
Spore trap analysis: 09-09-2010

Service SOPs: Spore trap analysis (1038)

---

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. Wesley Frey, Mr. Larry Sandhu  
Re: 21004001-8 and 9

Date of Sampling: 04-23-2010  
Date of Receipt: 04-23-2010  
Date of Report: 04-23-2010

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

Location:	21004001-8-TM77OUTLS		21004001-8-TM78LS	
Comments (see below)	None		None	
Lab ID-Version‡:	2889352-2		2889353-2	
	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	4	53		
Arthrinium				
Ascospores*	20	1,100		
Aureobasidium				
Basidiospores*	177	9,400		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium			1	13
Cladosporium	17	910		
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium	5	67		
Other colorless				
Penicillium/Aspergillus types†	5	270		
Pithomyces				
Rusts*	1	13		
Smuts*, Periconia, Myxomycetes*	7	93		
Stachybotrys				
Stemphylium	1	13		
Torula				
Ulocladium				
Zygomycetes				
Background debris (1-4+)††	2+		4+	
Hyphal fragments/m3	13		< 13	
Pollen/m3	210		< 13	
Skin cells (1-4+)	< 1+		1+	
Sample volume (liters)	75		75	
<b>§ TOTAL SPORES/m3</b>		<b>12,000</b>		<b>13</b>

**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" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.



Report for:

**Mr. Wesley Frey, Mr. Larry Sandhu**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

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Regarding: Project: 21004001-8 and 9  
EML ID: 651679

Approved by:

Lab Manager  
Malcolm Moody

REVISED REPORT

Dates of Analysis:  
Direct microscopic exam (Qualitative): 09-09-2010

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

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Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu  
 Re: 21004001-8 and 9

Date of Sampling: 04-24-2010  
 Date of Receipt: 04-24-2010  
 Date of Report: 04-24-2010

**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‡: 2889438-2: Tape sample 21004001-9-TL809LS				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 2889439-2: Tape sample 21004001-9-TL810LS				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2889440-2: Tape sample 21004001-9-TL811LS				
Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 2889441-2: Tape sample 21004001-9-TL812LS				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 2889442-2: Tape sample 21004001-9-TL813LS				
Light	Very few	None	None	Normal trapping

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".



Report for:

**Mr. Wesley Frey, Mr. Larry Sandhu**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

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Regarding: Project: 21004001-8 and 9  
EML ID: 651679

Approved by:

Lab Manager  
Malcolm Moody

REVISED REPORT

Dates of Analysis:  
Spore trap analysis: 09-09-2010

Service SOPs: Spore trap analysis (1038)

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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

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Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu  
 Re: 21004001-8 and 9

Date of Sampling: 04-24-2010  
 Date of Receipt: 04-24-2010  
 Date of Report: 04-24-2010

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

Location:	21004001-8-TM806LS		21004001-8-TM807LS		21004001-8-TM808OUTLS	
Comments (see below)	A		A		None	
Lab ID-Version‡:	2889443-3		2889444-3		2889445-2	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria					6	80
Arthrinium						
Ascospores*					6	320
Aureobasidium						
Basidiospores*					97	5,200
Bipolaris/Drechslera group						
Botrytis						
Chaetomium						
Cladosporium					32	1,700
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†					7	370
Pithomyces						
Rusts*					31	410
Smuts*, Periconia, Myxomycetes*					17	230
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	3+		3+		2+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	< 13		< 13		80	
Skin cells (1-4+)	< 1+		< 1+		< 1+	
Sample volume (liters)	75		75		75	
<b>§ TOTAL SPORES/m3</b>		<b>&lt; 13</b>		<b>&lt; 13</b>		<b>8,300</b>

Comments: A) No spores detected.

\* 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" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.



Report for:

**Mr. Wesley Frey, Mr. Larry Sandhu**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

---

Regarding: Project: 21004001-8 and 9  
EML ID: 651671

Approved by:

Lab Manager  
Malcolm Moody

REVISED REPORT

Dates of Analysis:  
Direct microscopic exam (Qualitative): 09-09-2010

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

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All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank 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

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Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu  
 Re: 21004001-8 and 9

Date of Sampling: 04-24-2010  
 Date of Receipt: 04-24-2010  
 Date of Report: 04-24-2010

**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‡: 2889418-2: Tape sample 21004001-9-TL801LS				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2889419-2: Tape sample 21004001-9-TL802LS				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2889420-2: Tape sample 21004001-9-TL803LS				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 2889421-2: Tape sample 21004001-9-TL804LS				
Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 2889422-2: Tape sample 21004001-9-TL805LS				
Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 2889423-2: Tape sample 21004001-9-TL806LS				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 2889424-2: Tape sample 21004001-9-TL807LS				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 2889425-2: Tape sample 21004001-9-TL808LS				
Moderate	Very few	None	None	Normal trapping

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".



Report for:

**Mr. Wesley Frey, Mr. Larry Sandhu**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

---

Regarding: Project: 21004001-8 and 9  
EML ID: 651671

Approved by:

Lab Manager  
Malcolm Moody

REVISED REPORT

Dates of Analysis:  
Spore trap analysis: 09-09-2010

Service SOPs: Spore trap analysis (1038)

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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

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Client: Hygiene Technologies International, Inc.:  
Northern California  
C/O: Mr. Wesley Frey, Mr. Larry Sandhu  
Re: 21004001-8 and 9

Date of Sampling: 04-24-2010  
Date of Receipt: 04-24-2010  
Date of Report: 04-24-2010

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

Location:	21004001-8-TM801OUTLS		21004001-8-TM802LS		21004001-8-TM803LS		21004001-8-TM804LS		21004001-8-TM805LS	
Comments (see below)	None		A		None		None		None	
Lab ID-Version‡:	2889426-2		2889427-2		2889428-2		2889429-2		2889430-2	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	2	27								
Arthrinium										
Ascospores*	19	1,000					1	53		
Aureobasidium										
Basidiospores*	181	9,700								
Bipolaris/Drechslera group										
Botrytis										
Chaetomium										
Cladosporium	43	2,300								
Curvularia										
Epicoccum										
Fusarium										
Myrothecium										
Nigrospora									1	13
Oidium	3	40								
Penicillium/Aspergillus types†	8	430			1	53				
Pithomyces										
Rusts*	5	67								
Smuts*, Periconia, Myxomycetes*	189	2,500								
Stachybotrys										
Stemphylium	2	27								
Torula	1	13								
Ulocladium										
Zygomycetes										
Background debris (1-4+)††	2+		1+		4+		4+		4+	
Hyphal fragments/m3	40		< 13		< 13		< 13		< 13	
Pollen/m3	290		< 13		< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		< 1+		< 1+		< 1+		< 1+	
Sample volume (liters)	75		75		75		75		75	
<b>§ TOTAL SPORES/m3</b>		<b>16.000</b>		<b>&lt; 13</b>		<b>53</b>		<b>53</b>		<b>13</b>

Comments: A) No spores detected.

\* 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" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.



Report for:

**Mr. Wesley Frey, Mr. Syed Mehdi**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

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Regarding: Project: 21004001-8 and 9  
EML ID: 651891

Approved by:

Lab Manager  
Malcolm Moody

REVISED REPORT

Dates of Analysis:  
Direct microscopic exam (Qualitative): 09-09-2010

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

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Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wesley Frey, Mr. Syed Mehdi  
 Re: 21004001-8 and 9

Date of Sampling: 04-26-2010  
 Date of Receipt: 04-26-2010  
 Date of Report: 04-26-2010

**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‡: 2890130-2: Tape sample 21004001-9-TL40SM				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2890131-2: Tape sample 21004001-9-TL41SM				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 2890132-2: Tape sample 21004001-9-TL42SM				
Light	Very few	None	None	Normal trapping

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".



Report for:

**Mr. Wesley Frey, Mr. Syed Mehdi**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

---

Regarding: Project: 21004001-8 and 9  
EML ID: 651891

Approved by:

Lab Manager  
Malcolm Moody

REVISED REPORT

Dates of Analysis:  
Spore trap analysis: 09-09-2010

Service SOPs: Spore trap analysis (1038)

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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. Wesley Frey, Mr. Syed Mehdi  
Re: 21004001-8 and 9

Date of Sampling: 04-26-2010  
Date of Receipt: 04-26-2010  
Date of Report: 04-26-2010

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

Location:	21004001-8-TM87OUTSM		21004001-8-TM88SM	
Comments (see below)	A		None	
Lab ID-Version‡:	2890133-2		2890134-2	
	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	1	13		
Arthrinium				
Ascospores*	12	640		
Aureobasidium				
Basidiospores*	229	12,000		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	17	910		
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium	2	27		
Other colorless				
Penicillium/Aspergillus types†	69	1,200	2	110
Pithomyces				
Rusts*				
Smuts*, Periconia, Myxomycetes*	3	40		
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Background debris (1-4+)††	2+		3+	
Hyphal fragments/m3	40		< 13	
Pollen/m3	200		< 13	
Skin cells (1-4+)	< 1+		1+	
Sample volume (liters)	75		75	
<b>§ TOTAL SPORES/m3</b>		<b>15,000</b>		<b>110</b>

**Comments:**A) 62 of the raw count *Penicillium/Aspergillus* type spores were present as a single clump.

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

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

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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.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.



Report for:

**Mr. Wesley Frey, Mr. Syed Mehdi**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

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Regarding: Project: 21004001-8 and 9  
EML ID: 652906

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Spore trap analysis: 04-28-2010

Service SOPs: Spore trap analysis (I100000)

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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

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Client: Hygiene Technologies International, Inc.:  
Northern California  
C/O: Mr. Wesley Frey, Mr. Syed Mehdi  
Re: 21004001-8 and 9

Date of Sampling: 04-27-2010  
Date of Receipt: 04-28-2010  
Date of Report: 04-28-2010

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

Location:	21004001-8-TM89OUTSM		21004001-8-TM90SM	
Comments (see below)	None		A	
Lab ID-Version‡:	2894453-1		2894454-1	
	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	1	13		
Arthrinium				
Ascospores*	20	1,100		
Aureobasidium				
Basidiospores*	53	2,800		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	10	530		
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Other colorless				
Penicillium/Aspergillus types†	4	210		
Pithomyces				
Rusts*	1	13		
Smuts*, Periconia, Myxomycetes*	7	93		
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Background debris (1-4+)††	1+		< 1+	
Hyphal fragments/m3	< 13		< 13	
Pollen/m3	40		< 13	
Skin cells (1-4+)	< 1+		< 1+	
Sample volume (liters)	75		75	
<b>§ TOTAL SPORES/m3</b>		<b>4,800</b>		<b>&lt; 13</b>

Comments: A) No spores detected.

\* 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" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.



Report for:

**Mr. Wesley Frey, Mr. Syed Mehdi**  
**Hygiene Technologies International, Inc.: Northern California**  
3625 Del Amo Boulevard, Suite 180  
Torrance, CA 90503-8370

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Regarding: Project: 21004001-8 and 9  
EML ID: 652906

Approved by:

Lab Manager  
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 04-28-2010

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

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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

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Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wesley Frey, Mr. Syed Mehdi  
 Re: 21004001-8 and 9

Date of Sampling: 04-27-2010  
 Date of Receipt: 04-28-2010  
 Date of Report: 04-28-2010

**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‡: 2894455-1: Tape sample 21004001-9-TL43SM				
Light	Very few	None	None	Normal trapping

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".







## Request For Analysis

Project Number/Purchase Order: 21004001-889 Date Submitted: 04/22/10  
 Project Contact: SYED MEHDI/WES FREY Turnaround Required: SAME DAY  
 Lab Destination: EM LAB PERK Lab Contact: SAMPLE RECEIVING

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21004001-8 TMB405SM	75L	Air-O-Cell	SPORE TRAP
↓ TMB65SM	↓	↓	↓
↓ TMB65SM	↓	↓	↓
21004001-9 TA345SM	N/A	TAPE	DIRECT EXAM (QUALITATIVE)
↓ TL35SM	↓	↓	↓
↓ TL36SM	↓	↓	↓
↓ TL37SM	↓	↓	↓
↓ TL38SM	↓	↓	↓
↓ TL39SM	↓	↓	↓

Special Instructions: STORAGE 6B & 6C CLEARANCE

1. Sampled by: Jen on 04/22/10 @ 15:40 Received by: \_\_\_\_\_  
 2. Relinquished by: Jen on 04/22/10 @ 16:30 Received by: Brandon Jordan 4/23/10 @ 0800  
 3. Relinquished by: \_\_\_\_\_ Received by: \_\_\_\_\_  
 Please include signature, date, and time

Lab Use Only:





## Request For Analysis

Project Number/Purchase Order: 21004001-889 Date Submitted: 4/24/10  
 Project Contact: Lesandra Swifray Turnaround Required: Holiday weekend  
 Lab Destination: ENLAB Lab Contact: Sample Relinquish

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21004001-8 TM802LS	75L	Airco-6011	SPORA TRAP
↓ TM803LS	↓	↓	↓
↓ TM804LS	↓	↓	↓
↓ TM805LS	↓	↓	↓
21004001-9 TL801LS	N/A	Tape	Direct Exam (Qualitative)
↓ TL802LS	↓	↓	↓
↓ TL803LS	↓	↓	↓
↓ TL804LS	↓	↓	↓
↓ TL805LS	↓	↓	↓
↓ TL806LS	↓	↓	↓
↓ TL807LS	↓	↓	↓
↓ TL808LS	↓	↓	↓

Special Instructions: CLASRAMCO Rm 612, 613, 614, 615, 616, 617, 618, 619, 620  
SE corner <sup>south</sup> pinch out windows

1. Sampled by: Lesandra Swifray on 4/24/10 @ 11:35 Received by: \_\_\_\_\_  
 2. Relinquished by: Lesandra Swifray on 4/24/10 @ 12:35 Received by: Brandon Jordan 4/24/10 @ 1:35  
 3. Relinquished by: \_\_\_\_\_ Received by: \_\_\_\_\_  
 Please include signature, date, and time

Lab Use Only:





