



HYGIENETECH

Hygiene Technologies International, Inc.

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January 19, 2010

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

Document No. 21001001.1

Attention: David Gau

Regarding: 21st Floor Fungal Growth Beneath Carpeting

Dear Mr. Gau:

On the evening of January 8, 2010, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) and representatives of LaCroix Davis, LLC. (LCD) discovered suspect fungal growth on exposed concrete subfloor surfaces and on the reverse side of previously removed carpeting that had been stockpiled throughout the 21st Floor. Earlier that afternoon, representatives of LCD had informed HygieneTech verbally that they had recorded elevated levels of *Penicillium/Aspergillus* type spores in an air sample collected outside of the containments on Thursday, January 7, 2010. Shortly following the discovery of suspect fungal growth on January 8, JLS Environmental Services Inc. (JLS), an abatement contractor, began the task of isolated the 21st Floor from the rest of the building using polyethylene sheeting and tape to effectively place the entire 21st Floor under containment. That evening, HygieneTech also collected air samples in elevator lobbies of random floors above and below the 21st Floor. On Saturday, January 9, 2010, JLS personnel began the process of vacuuming and cleaning all surfaces on the 21st Floor (with the exception of negative pressure containment at that time) under the direction of LCD, using equipment having high efficiency particulate air (HEPA) filtration. HEPA filters were also placed throughout the floor to improve the general indoor air quality. The floor wide surface cleaning was completed on Sunday, January 10, 2010, and HygieneTech collected another round of air samples in various elevator lobbies on Monday, January 11, and Tuesday, January 12. In addition, HygieneTech collected a limited number of surface samples from the carpeting and concrete subfloor surfaces in order to characterize the fungal growth that had been reported. The survey findings, along with the analytical data, and conclusions appear below.

On the survey dates, air samples were collected for total (viable and nonviable) fungi analyses using Zefon brand Bio-Pumps™ equipped with Air-O-Cell® cassettes. Surface samples were collected for fungal growth assessment using cellophane tape segments 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 airborne and surface fungi assessment analytical data with supporting and background information appear in the enclosed tables.



As presented in Table 21001001-12, the airborne spore count data recorded showed mostly fungal spore types outdoors such as *Alternaria*, ascospores, basidiospores, *Botrytis*, *Cladosporium*, colorless spores typical of *Penicillium* and *Aspergillus* species, *Epicoccum*, *Nigrospora*, *Oidium*, other brown, smuts, and *Stemphylium*, with basidiospores predominating in the samples collected. In the indoor areas tested, the data showed low airborne concentrations of mostly common fungal spores that included one or more of the following: ascospores, basidiospores, *Cladosporium*, colorless spores typical of *Penicillium* and *Aspergillus* species, other brown, rusts, and smuts. The distribution of fungal spore types detected in the surveyed areas was generally consistent with those found outdoors, and the overall data within the tested areas were well below the overall data recorded outdoors. Note that although an above-background level of colorless spores typical of *Penicillium* and *Aspergillus* species were found on the 11th Floor during the January 11 survey, subsequent air sampling on January 12 showed a below background level of colorless spores typical of *Penicillium* and *Aspergillus* species. These data are considered unremarkable and are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.

The surface assessment data, which appear with supporting information in Table 21001001-7, indicated fungal growth involving colorless spores typical of *Penicillium* and *Aspergillus* species on four of the five carpet pile samples collected. Fungal growth involving colorless spores typical of *Penicillium* and *Aspergillus* species was also found on the concrete subfloor surface sample collected.

Note that currently, the pathways in the 21st floor cubicle areas have been covered with polyethylene sheeting and tape to prevent the State of California Department of General Services (DGS) contractors from walking on and disturbing the fungal growth found on the concrete subfloor until a protocol addressing the confirmed fungal growth is established by the DGS consultants. Also note that HygieneTech has been informed LCD via email and verbally that air quality data on the 21st Floor were unremarkable. However, we are waiting to receive all of the 21st Floor LCD data for our review and records.

Be advised that the data provided in this report only represent limited fungal growth and exposure potentials that existed at the time the survey was performed and at the precise sample locations indicated, the latter of which were selected based on the available background information provided. Note that fungal growth and exposure potentials may change due to changes in environmental conditions (such as those caused by water intrusion), use of mechanical systems, or other factors. Also be advised that additional fungal growth may exist at one or more locations in the structure that were not specifically assessed during the survey.

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.

Kenny K. Hsi, CIH
Technical Director

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



CLIENT: State Of California
Board of Equalization
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Sacramento, California 94279

**TABLE 21001001-12
AIRBORNE TOTAL FUNGI RESULTS
RANDOM SAMPLING
SACRAMENTO, CALIFORNIA
JANUARY 8, 11 and 12, 2010**

Page 1

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

SAMPLE NUMBER	21001001-13 TM01OUTLS	21001001-13 TM02LS	21001001-13 TM03LS	21001001-13 TM04LS
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 15 feet north of building; approximately five feet above ground/Normal outdoor activities	20 th Floor; northern hallway adjacent to elevator lobby; approximately five feet above floor/Normal office activities	22 nd Floor; northern hallway adjacent to elevator lobby; approximately five feet above floor/Normal office activities	17 th Floor; elevator lobby; about center; approximately five feet above floor/Normal office activities
DATE	01-08-10	01-08-10	01-08-10	01-08-10
START/STOP	15:41:00/15:46:00	15:53:00/15:58	16:00:00/16:05:00	17:45:00/17:50:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores	2,500		110	
Aureobasidium				
Basidiospores	5,600	270	110	110
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	850			
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Oidium				
Other brown	13	13	13	13
Penicillium/Aspergillus types	110	53		
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)			13	
Stachybotrys				
Torula				
Ulocladium				
Background Particulate*	3+	3+	3+	2+
Hyphal Fragments	13	<13	<13	<13
TOTAL**	9,100	330	240	120

*Background Particulate 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.

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

SAMPLE NUMBER	21001001-13 TM05LS	21001001-13 TM06LS	21001001-13 TM07LS	21001001-13 TM08LS
SAMPLING LOCATION/ACTIVITIES	15 th Floor; elevator lobby; about center; approximately five feet above floor/Normal office activities	11 th Floor; high rise elevator lobby; about center; approximately five feet above floor/Normal office activities	10 th Floor; elevator lobby; about center; approximately five feet above floor/Normal office activities	8 th Floor; elevator lobby; about center; approximately five feet above floor/Normal office activities
DATE	01-08-10	01-08-10	01-08-10	01-08-10
START/STOP	17:51:00/17:56:00	17:59:00/18:04:00	18:08:00/18:13:00	18:15:00/18:20:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores				53
Aureobasidium				
Basidiospores	110	110	110	53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53			53
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Other brown		40		13
Penicillium/Aspergillus types		53		
Pithomyces				
Rusts			13	
Smuts (Periconia, Myxomycetes)		13		
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Background Particulate*	2+	3+	3+	3+
Hyphal Fragments	<13	<13	<13	<13
TOTAL**	160	210	120	170

*Background Particulate 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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RANDOM SAMPLING
SACRAMENTO, CALIFORNIA
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Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	21001001-13 TM09LS	21001001-13 TM10LS	21001001-13 TM11LS	21001001-13 TM12OUTLS
SAMPLING LOCATION/ACTIVITIES	5 th Floor; elevator lobby; about center; approximately five feet above floor/Normal office activities	3 rd Floor; elevator lobby; about center; approximately five feet above floor/Normal office activities	1 st Floor; low rise elevator lobby; about center; approximately five feet above floor/Normal office activities	Outdoors; about 20 feet north of building; approximately five feet above ground/Normal outdoor activities
DATE	01-08-10	01-08-10	01-08-10	01-08-10
START/STOP	18:22:00/18:27:00	18:28:00/18:23:00	18:35:00/18:40:00	18:41:00/18:46:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores			320	2,500
Basidiospores	53		1,800	6,700
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53	53	210	1,200
Curvularia				
Epicoccum				13
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types		53	110	110
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				27
Torula				
Ulocladium				
Zygomycetes				
Background Particulate*	2+	3+	3+	3+
Hyphal Fragments	<13	<13	13	27
TOTAL**	110	110	2,400	10,000

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AIRBORNE TOTAL FUNGI RESULTS
RANDOM SAMPLING
SACRAMENTO, CALIFORNIA
JANUARY 8, 11 and 12, 2010**

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

SAMPLE NUMBER	21001001-12 TM01OUTWF	21001001-12 TM02WF	21001001-12 TM03WF	21001001-12 TMO4WF
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 25 feet east of building; approximately five feet above ground/Normal outdoor activities	22 nd Floor; southwest corner of elevator lobby; approximately five feet above floor/Normal office activities	20 th Floor; southwest corner of elevator lobby; approximately five feet above floor/Normal office activities	17 th Floor; southwest corner of elevator lobby; approximately five feet above floor/Normal office activities
DATE	01-11-10	01-11-10	01-11-10	01-11-10
START/STOP	06:35:00/06:40:00	07:22:00/07:27:00	07:29:00/07:34:00	07:36:00/07:41:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores	850		53	
Aureobasidium				
Basidiospores	17,000	53	370	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	430		110	
Curvularia				
Epicoccum				
Nigrospora				
Oidium	27			
Other brown				
Other colorless				
Penicillium/Aspergillus types	160	630	550	
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Ulocladium				
Zygomycetes				
Background Particulate*	3+	3+	3+	3+
Hyphal Fragments	<13	13	<13	13
TOTAL**	18,000	680	1,100	<13

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

SAMPLE NUMBER	21001001-12 TM05WF	21001001-12 TM06WF	21001001-12 TM01OUTSM	21001001-12 TMO2SM
SAMPLING LOCATION/ACTIVITIES	15 th Floor; southwest corner of elevator lobby; approximately five feet above floor/Normal office activities	11 th Floor; southwest corner of high rise elevator lobby; approximately five feet above floor/Normal office activities	Outdoors; about 25 feet east of building; approximately five feet above ground/Normal outdoor activities	4 th Floor ; southwest corner of elevator lobby; approximately five feet above floor/Normal office activities
DATE	01-11-10	01-11-10	01-12-10	01-12-10
START/STOP	07:42:00/07:47:00	07:49:00/07:54:00	11:05:00/11:10:00	11:15:00/11:20:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores			2,600	
Basidiospores	960		18,000	110
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53		1,200	
Curvularia				
Epicoccum				
Fusarium				
Nigrospora			13	
Oidium				
Other brown				
Other colorless				
Penicillium/Aspergillus types	53	2,200	430	53
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Background Particulate*	3+	3+	2+	3+
Hyphal Fragments	13	13	<13	<13
TOTAL**	1,100	2,200	22,000	160

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

SAMPLE NUMBER	21001001-12 TM04SM	21001001-12 TM05SM	21001001-12 TM06SM	21001001-12 TM07SM
SAMPLING LOCATION/ACTIVITIES	22 nd Floor; southwest corner of elevator lobby; approximately five feet above floor/Normal office activities	20 th Floor; southwest corner of elevator lobby; approximately five feet above floor/Normal office activities	17 th Floor; southwest corner of elevator lobby; approximately five feet above floor/Normal office activities	15 th Floor; southwest corner of elevator lobby; approximately five feet above floor/Normal office activities
DATE	01-12-10	01-12-10	01-12-10	01-12-10
START/STOP	11:36:00/11:41:00	11:45:00/11:50:00	11:55:00/12:00:00	12:03:00/12:08:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores				
Basidiospores	53	110		53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	160	53		53
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Other colorless				
Penicillium/Aspergillus types	150		110	
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				13
Stachybotrys				
Stemphylium				
Ulocladium				
Zygomycetes				
Background Particulate*	3+	3+	3+	3+
Hyphal Fragments	<13	<13	<13	<13
TOTAL**	360	160	110	120

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

SAMPLE NUMBER	21001001-12 TM08SM	21001001-12 TM09OUTSM	21001001-17 TM01LS	21001001-17 TM02OUTLS
SAMPLING LOCATION/ACTIVITIES	11 th Floor; southwest corner of high rise elevator lobby; approximately five feet above floor/Normal office activities	Outdoors; about 25 feet east of building; approximately five feet above ground/Normal outdoor activities	21 st Floor; southern hallway; about two feet south east of freight elevator; approximately five feet above floor/Sampling activities only	Outdoors; about 20 feet east of building; approximately five feet above ground/Normal outdoor activities
DATE	01-12-10	01-12-10	01-12-10	01-12-10
START/STOP	12:10:00/12:15:00	12:20:00/12:25:00	16:36:00/16:41:00	16:47:00/16:52:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				27
Arthrinium				
Ascospores		2,900		1,300
Aureobasidium				
Basidiospores	110	15,000		10,000
Bipolaris/Drechslera group				
Botrytis				53
Cercospora		13		
Chaetomium				
Cladosporium		1,900		3,700
Epicoccum				
Myrothecium				
Nigrospora				
Other brown			13	
Other colorless				
Penicillium/Aspergillus types		270		640
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)		40		67
Stachybotrys				
Ulocladium				
Zygomycetes				
Background Particulate*	3+	2+	2+	2+
Hyphal Fragments	13	40	<13	53
TOTAL **	110	20,000	13	16,000

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**TABLE 21001001-7
SURFACE FUNGAL GROWTH POTENTIALS
21ST FLOOR
SACRAMENTO, CALIFORNIA
JANUARY 8 AND 11, 2010**

DATE	SAMPLE NUMBER	SAMPLING LOCATION	BACKGROUND DEBRIS	MISCELLANEOUS SPORES PRESENT*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
01-08-10	21001001-7 TL26LS	Western cubicle area; carpet pile; from reverse side of previously removed carpet material	Moderate	Very few	4+ colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Fungal growth
01-08-10	21001001-7 TL27LS	Western cubicle area; carpet pile; from reverse side of previously removed carpet material	Heavy	Very few	4+ colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Fungal growth
01-08-10	21001001-7 TL28LS	Western cubicle area; carpet pile; from reverse side of previously removed carpet material	Very heavy	Very few	None	None	Background
01-08-10	21001001-7 TL29LS	Eastern cubicle area; carpet pile; from reverse side of previously removed carpet material	Very heavy	Very Few	3+ colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Fungal growth
01-08-10	21001001-7 TL30LS	Southern cubicle area; carpet pile; from reverse side of previously removed carpet material	Heavy	Very few	4+ colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Fungal growth
01-11-10	21001001-7 TL34LS	Room 2105; outside of containment; floor; about two feet north of entry door; from horizontal surface of concrete	Heavy	Very few	2+ 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).

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Larry Sandhu
 Re: 21001001-13

Date of Sampling: 01-09-2010
 Date of Receipt: 01-11-2010
 Date of Report: 01-11-2010

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21001001-13TM01OUTLS

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					ND	< 13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium	█	█	█	█	16	850
Curvularia					ND	< 13
Nigrospora					ND	< 13
Other brown	█				1	13
Penicillium/Aspergillus types†	█				2	110
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores‡‡	█	█	█	█	47	2,500
Basidiospores‡‡	█	█	█	█	105	5,600
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes‡‡					ND	< 13
Total						9,073

Location: 21001001-13TM02LS

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					ND	< 13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					ND	< 13
Curvularia					ND	< 13
Nigrospora					ND	< 13
Other brown	█				1	13
Penicillium/Aspergillus types†	█				1	53
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores‡‡					ND	< 13
Basidiospores‡‡	█	█			5	270
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes‡‡					ND	< 13
Total						336

MoldSCORE‡			
100	200	300	Score
█			100
█			100
█			100
█			100
█			100
█			100
█			105
█			108
█			100
█			100
█			100
█			100
█			107
█			100
█			100
Final MoldSCORE			108

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Larry Sandhu
 Re: 21001001-13

Date of Sampling: 01-09-2010
 Date of Receipt: 01-11-2010
 Date of Report: 01-11-2010

MoldSCORE™: Spore Trap Report

Location: 21001001-13TM03LS

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Other brown	█				1	13				105
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††	█				2	110				117
Basidiospores††	█				2	110				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††	█				1	13				103
Total						246				Final MoldSCORE 108

Location: 21001001-13TM04LS

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Other brown	█				1	13				105
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††	█				2	110				104
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						123				Final MoldSCORE 105

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Larry Sandhu
 Re: 21001001-13

Date of Sampling: 01-09-2010
 Date of Receipt: 01-11-2010
 Date of Report: 01-11-2010

MoldSCORE™: Spore Trap Report

Location: 21001001-13TM05LS

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	100			
Bipolaris/Drechslera group					ND	< 13	100			
Chaetomium					ND	< 13	100			
Cladosporium	█				1	53	102			
Curvularia					ND	< 13	100			
Nigrospora					ND	< 13	100			
Penicillium/Aspergillus types†					ND	< 13	100			
Stachybotrys					ND	< 13	100			
Torula					ND	< 13	100			
Seldom found growing indoors**										
Ascospores††					ND	< 13	100			
Basidiospores††	█				2	110	101			
Rusts					ND	< 13	100			
Smuts, Periconia, Myxomycetes††					ND	< 13	100			
Total						163	Final MoldSCORE 102			

Location: 21001001-13TM06LS

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	100			
Bipolaris/Drechslera group					ND	< 13	100			
Chaetomium					ND	< 13	100			
Cladosporium					ND	< 13	100			
Curvularia					ND	< 13	100			
Nigrospora					ND	< 13	100			
Other brown	█				3	40	116			
Penicillium/Aspergillus types†	█				1	53	108			
Stachybotrys					ND	< 13	100			
Torula					ND	< 13	100			
Seldom found growing indoors**										
Ascospores††					ND	< 13	100			
Basidiospores††	█				2	110	100			
Rusts					ND	< 13	100			
Smuts, Periconia, Myxomycetes††	█				1	13	103			
Total						216	Final MoldSCORE 118			

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Larry Sandhu
 Re: 21001001-13

Date of Sampling: 01-09-2010
 Date of Receipt: 01-11-2010
 Date of Report: 01-11-2010

MoldSCORE™: Spore Trap Report

Location: 21001001-13TM07LS

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					2	110				104
Rusts					1	13				105
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						123				Final MoldSCORE 104

Location: 21001001-13TM08LS

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				102
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Other brown					1	13				105
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					1	53				102
Basidiospores††					1	53				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						172				Final MoldSCORE 105

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Larry Sandhu
 Re: 21001001-13

Date of Sampling: 01-09-2010
 Date of Receipt: 01-11-2010
 Date of Report: 01-11-2010

MoldSCORE™: Spore Trap Report

Location: 21001001-13TM09LS

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium	█				1	53	█			103
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††	█				1	53	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						106				Final MoldSCORE 103

Location: 21001001-13TM10LS

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium	█				1	53	█			103
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†	█				1	53	█			108
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††					ND	< 13	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						106				Final MoldSCORE 108

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Larry Sandhu
 Re: 21001001-13

Date of Sampling: 01-09-2010
 Date of Receipt: 01-11-2010
 Date of Report: 01-11-2010

MoldSCORE™: Spore Trap Report

Location: 21001001-13TM11LS

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	100			
Bipolaris/Drechslera group					ND	< 13	100			
Chaetomium					ND	< 13	100			
Cladosporium	█				4	210	100			
Curvularia					ND	< 13	100			
Nigrospora					ND	< 13	100			
Penicillium/Aspergillus types†	█				2	110	113			
Stachybotrys					ND	< 13	100			
Torula					ND	< 13	100			
Seldom found growing indoors**										
Ascospores††	█	█			6	320	100			
Basidiospores††	█	█	█		33	1,800	131			
Rusts					ND	< 13	100			
Smuts, Periconia, Myxomycetes††					ND	< 13	100			
Total						2,440	Final MoldSCORE 131			

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

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

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

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

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Larry Sandhu
 Re: 21001001-13

Date of Sampling: 01-09-2010
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 Date of Report: 01-11-2010

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21001001-13TM12OUTLS

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					ND	< 13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium	█	█	█	█	22	1,200
Curvularia					ND	< 13
Epicoccum	█				1	13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†	█				2	110
Stachybotrys					ND	< 13
Stemphylium	█				2	27
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores‡‡	█	█	█	█	47	2,500
Basidiospores‡‡	█	█	█	█	125	6,700
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes‡‡					ND	< 13
Total						10,550

Location: 21001001-13TM02LS

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					ND	< 13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					ND	< 13
Curvularia					ND	< 13
Nigrospora					ND	< 13
Other brown	█				1	13
Penicillium/Aspergillus types†	█				1	53
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores‡‡					ND	< 13
Basidiospores‡‡	█				5	270
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes‡‡					ND	< 13
Total						336

MoldSCORE‡			Score
100	200	300	
█			100
█			100
█			100
█			100
█			100
█			100
█			100
█			105
█			108
█			100
█			100
█			100
█			100
█			100
█			100
█			106
█			100
█			100
Final MoldSCORE			108

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Larry Sandhu
 Re: 21001001-13

Date of Sampling: 01-09-2010
 Date of Receipt: 01-11-2010
 Date of Report: 01-11-2010

MoldSCORE™: Spore Trap Report

Location: 21001001-13TM03LS

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium					ND	< 13	█			100
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Other brown	█				1	13	█			105
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††	█				2	110	█	█		121
Basidiospores††	█				2	110	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††	█				1	13	█			103
Total						246				Final MoldSCORE 108

Location: 21001001-13TM04LS

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium					ND	< 13	█			100
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Other brown	█				1	13	█			105
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††	█				2	110	█			103
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						123				Final MoldSCORE 105

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Larry Sandhu
 Re: 21001001-13

Date of Sampling: 01-09-2010
 Date of Receipt: 01-11-2010
 Date of Report: 01-11-2010

MoldSCORE™: Spore Trap Report

Location: 21001001-13TM05LS

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium	█				1	53	█			102
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††	█				2	110	█			101
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						163				Final MoldSCORE 102

Location: 21001001-13TM06LS

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium					ND	< 13	█			100
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Other brown	█				3	40	█			116
Penicillium/Aspergillus types†	█				1	53	█			108
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††	█				2	110	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††	█				1	13	█			103
Total						216				Final MoldSCORE 118

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Larry Sandhu
 Re: 21001001-13

Date of Sampling: 01-09-2010
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 Date of Report: 01-11-2010

MoldSCORE™: Spore Trap Report

Location: 21001001-13TM07LS

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					2	110				103
Rusts					1	13				105
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						123				Final MoldSCORE 103

Location: 21001001-13TM08LS

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				102
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Other brown					1	13				105
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					1	53				105
Basidiospores††					1	53				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						172				Final MoldSCORE 105

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Larry Sandhu
 Re: 21001001-13

Date of Sampling: 01-09-2010
 Date of Receipt: 01-11-2010
 Date of Report: 01-11-2010

MoldSCORE™: Spore Trap Report

Location: 21001001-13TM09LS

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				103
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					1	53				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						106				Final MoldSCORE 103

Location: 21001001-13TM10LS

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				103
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					1	53				108
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						106				Final MoldSCORE 108

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Larry Sandhu
 Re: 21001001-13

Date of Sampling: 01-09-2010
 Date of Receipt: 01-11-2010
 Date of Report: 01-11-2010

MoldSCORE™: Spore Trap Report

Location: 21001001-13TM11LS

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium	█				4	210	█			100
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†	█				2	110	█			114
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††	█	█			6	320	█			100
Basidiospores††	█	█	█		33	1,800	█	█		126
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						2,440	Final MoldSCORE 126			

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

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

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

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

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Larry Sandhu
 Re: 21001001-13

Date of Sampling: 01-09-2010
 Date of Receipt: 01-11-2010
 Date of Report: 01-11-2010

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21001001-13TM01OUTLS:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores				2,500	13 - 160 - 4,700	76
Basidiospores				5,600	13 - 320 - 17,000	91
Cladosporium				850	27 - 520 - 9,100	93
Other brown				13	7 - 13 - 110	31
Penicillium/Aspergillus types				110	25 - 210 - 2,500	78
Smuts, Periconia, Myxomycetes				ND	7 - 40 - 850	69
Total				9,073		

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

Indoor Samples

Location: 21001001-13TM02LS

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 3%	dF: 9 Result: 6.9974 Critical value: 16.9190 Inside Similar: Yes	Result: 0.7500	dF: 5 Result: 0.1750 Critical value: 0.8000 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Basidiospores				270
	Other brown				13
	Penicillium/Aspergillus types				53
	Total				336

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Larry Sandhu
 Re: 21001001-13

Date of Sampling: 01-09-2010
 Date of Receipt: 01-11-2010
 Date of Report: 01-11-2010

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21001001-13TM03LS

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 2%	dF: 9 Result: 6.9974 Critical value: 16.9190 Inside Similar: Yes	Result: 0.6667	dF: 6 Result: 0.5000 Critical value: 0.7714 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					110
Basidiospores					110
Other brown					13
Smuts, Periconia, Myxomycetes					13
Total					246

Location: 21001001-13TM04LS

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 9 Result: 6.9974 Critical value: 16.9190 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.3000 Critical value: 0.8000 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					110
Other brown					13
Total					123

Location: 21001001-13TM05LS

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 9 Result: 6.9974 Critical value: 16.9190 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.7000 Critical value: 0.8000 Outside Similar: No	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					110
Cladosporium					53
Total					163

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Larry Sandhu
 Re: 21001001-13

Date of Sampling: 01-09-2010
 Date of Receipt: 01-11-2010
 Date of Report: 01-11-2010

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21001001-13TM06LS

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 2%	dF: 9 Result: 6.9974 Critical value: 16.9190 Inside Similar: Yes	Result: 0.6667	dF: 6 Result: 0.1286 Critical value: 0.7714 Outside Similar: No	Score: 118 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					110
Other brown					40
Penicillium/Aspergillus types					53
Smuts, Periconia, Myxomycetes					13
Total					216

Location: 21001001-13TM07LS

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 9 Result: 6.9974 Critical value: 16.9190 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.2857 Critical value: 0.7714 Outside Similar: No	Score: 104 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					110
Rusts					13
Total					123

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Larry Sandhu
 Re: 21001001-13

Date of Sampling: 01-09-2010
 Date of Receipt: 01-11-2010
 Date of Report: 01-11-2010

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21001001-13TM08LS

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 9 Result: 6.9974 Critical value: 16.9190 Inside Similar: Yes	Result: 0.8889	dF: 5 Result: 0.8000 Critical value: 0.8000 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					53
Basidiospores					53
Cladosporium					53
Other brown					13
Total					172

Location: 21001001-13TM09LS

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 9 Result: 6.9974 Critical value: 16.9190 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.6250 Critical value: 0.8000 Outside Similar: No	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					53
Total					106

Location: 21001001-13TM10LS

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 9 Result: 6.9974 Critical value: 16.9190 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: -0.1250 Critical value: 0.8000 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Penicillium/Aspergillus types					53
Total					106

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Larry Sandhu
 Re: 21001001-13

Date of Sampling: 01-09-2010
 Date of Receipt: 01-11-2010
 Date of Report: 01-11-2010

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21001001-13TM11LS

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 26%	dF: 9 Result: 6.9974 Critical value: 16.9190 Inside Similar: Yes	Result: 0.8889	dF: 5 Result: 1.0000 Critical value: 0.8000 Outside Similar: Yes	Score: 131 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					320
Basidiospores					1,800
Cladosporium					210
Penicillium/Aspergillus types					110
Total					2,440

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

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

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

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

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

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Larry Sandhu
Re: 21001001-13

Date of Sampling: 01-09-2010
Date of Receipt: 01-11-2010
Date of Report: 01-11-2010

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21001001-13TM12OUTLS:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores					13 - 160 - 4,700	76
Basidiospores					13 - 320 - 17,000	91
Cladosporium					27 - 520 - 9,100	93
Epicoccum					7 - 20 - 330	25
Penicillium/Aspergillus types					25 - 210 - 2,500	78
Smuts, Periconia, Myxomycetes					7 - 40 - 850	69
Stemphylium					7 - 13 - 67	5
Total						

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

Indoor Samples

Location: 21001001-13TM02LS

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 3%	dF: 9 Result: 6.9974 Critical value: 16.9190 Inside Similar: Yes	Result: 0.4444	dF: 7 Result: 0.3036 Critical value: 0.6786 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Basidiospores				
	Other brown				
	Penicillium/Aspergillus types				
	Total				

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Larry Sandhu
 Re: 21001001-13

Date of Sampling: 01-09-2010
 Date of Receipt: 01-11-2010
 Date of Report: 01-11-2010

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21001001-13TM03LS

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 2%	dF: 9 Result: 6.9974 Critical value: 16.9190 Inside Similar: Yes	Result: 0.4000	dF: 8 Result: 0.3631 Critical value: 0.6190 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					110
Basidiospores					110
Other brown					13
Smuts, Periconia, Myxomycetes					13
Total					246

Location: 21001001-13TM04LS

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 9 Result: 6.9974 Critical value: 16.9190 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.2857 Critical value: 0.6786 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					110
Other brown					13
Total					123

Location: 21001001-13TM05LS

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 9 Result: 6.9974 Critical value: 16.9190 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.7143 Critical value: 0.7714 Outside Similar: No	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					110
Cladosporium					53
Total					163

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Larry Sandhu
 Re: 21001001-13

Date of Sampling: 01-09-2010
 Date of Receipt: 01-11-2010
 Date of Report: 01-11-2010

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21001001-13TM06LS

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 2%	dF: 9 Result: 6.9974 Critical value: 16.9190 Inside Similar: Yes	Result: 0.4000	dF: 8 Result: 0.1488 Critical value: 0.6190 Outside Similar: No	Score: 118 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					110
Other brown					40
Penicillium/Aspergillus types					53
Smuts, Periconia, Myxomycetes					13
Total					216

Location: 21001001-13TM07LS

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 9 Result: 6.9974 Critical value: 16.9190 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.2857 Critical value: 0.6786 Outside Similar: No	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					110
Rusts					13
Total					123

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Larry Sandhu
 Re: 21001001-13

Date of Sampling: 01-09-2010
 Date of Receipt: 01-11-2010
 Date of Report: 01-11-2010

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21001001-13TM08LS

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 9 Result: 6.9974 Critical value: 16.9190 Inside Similar: Yes	Result: 0.6000	dF: 7 Result: 0.7143 Critical value: 0.6786 Outside Similar: Yes	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					53
Basidiospores					53
Cladosporium					53
Other brown					13
Total					172

Location: 21001001-13TM09LS

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 9 Result: 6.9974 Critical value: 16.9190 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.6714 Critical value: 0.7714 Outside Similar: No	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					53
Total					106

Location: 21001001-13TM10LS

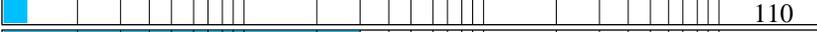
% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 9 Result: 6.9974 Critical value: 16.9190 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.1571 Critical value: 0.7714 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Penicillium/Aspergillus types					53
Total					106

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Larry Sandhu
 Re: 21001001-13

Date of Sampling: 01-09-2010
 Date of Receipt: 01-11-2010
 Date of Report: 01-11-2010

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21001001-13TM11LS

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 23%	dF: 9 Result: 6.9974 Critical value: 16.9190 Inside Similar: Yes	Result: 0.8000	dF: 6 Result: 0.9857 Critical value: 0.7714 Outside Similar: Yes	Score: 126 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					
Basidiospores					
Cladosporium					
Penicillium/Aspergillus types					
Total					

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

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

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

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

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

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Larry Sandhu
Re: 21001001-13

Date of Sampling: 01-09-2010
Date of Receipt: 01-11-2010
Date of Report: 01-11-2010

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21001001-13TM01OUTLS

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: January				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	-	7	13	170	30	7	27	230	57
Bipolaris/Drechslera group	-	7	13	200	11	7	13	130	13
Chaetomium	-	7	13	200	7	7	13	120	19
Cladosporium	850	20	270	4,900	87	53	640	7,000	97
Curvularia	-	7	20	450	10	7	13	230	7
Epicoccum	-	7	13	160	15	7	13	160	20
Nigrospora	-	7	13	170	10	7	13	170	8
Other brown	13	7	13	80	30	7	13	93	35
Penicillium/Aspergillus types	110	20	160	2,200	80	33	210	2,500	85
Stachybotrys	-	7	13	580	2	7	13	270	5
Stemphylium	-	7	13	53	3	7	13	67	9
Torula	-	7	13	160	6	7	13	150	12
Seldom found growing indoors**									
Ascospores	2,500	10	110	2,200	62	13	110	1,900	71
Basidiospores	5,600	13	230	9,700	85	13	210	7,300	93
Rusts	-	7	13	200	10	7	13	270	28
Smuts, Periconia, Myxomycetes	-	7	27	280	54	8	40	500	70
§ TOTAL SPORES/m3	9,100								

† The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

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

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

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

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

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

TestAmerica Environmental Microbiology Laboratory, Inc.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Larry Sandhu
Re: 21001001-13

Date of Sampling: 01-09-2010
Date of Receipt: 01-11-2010
Date of Report: 01-11-2010

MoldRANGE™: Extended Outdoor Comparison**Outdoor Location: 21001001-13TM12OUTLS**

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: January				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	-	7	13	170	30	7	27	230	57
Bipolaris/Drechslera group	-	7	13	200	11	7	13	130	13
Chaetomium	-	7	13	200	7	7	13	120	19
Cladosporium	1,200	20	270	4,900	87	53	640	7,000	97
Curvularia	-	7	20	450	10	7	13	230	7
Epicoccum	13	7	13	160	15	7	13	160	20
Nigrospora	-	7	13	170	10	7	13	170	8
Other brown	-	7	13	80	30	7	13	93	35
Penicillium/Aspergillus types	110	20	160	2,200	80	33	210	2,500	85
Stachybotrys	-	7	13	580	2	7	13	270	5
Stemphylium	27	7	13	53	3	7	13	67	9
Torula	-	7	13	160	6	7	13	150	12
Seldom found growing indoors**									
Ascospores	2,500	10	110	2,200	62	13	110	1,900	71
Basidiospores	6,700	13	230	9,700	85	13	210	7,300	93
Rusts	-	7	13	200	10	7	13	270	28
Smuts, Periconia, Myxomycetes	-	7	27	280	54	8	40	500	70
§ TOTAL SPORES/m3	10,000								

† The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

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

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

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

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

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

TestAmerica Environmental Microbiology Laboratory, Inc.



Report for:

Mr. Larry Sandhu
Hygiene Technologies International, Inc.: Northern California
1854 East Fir Ave., Suite 205
Fresno, CA 93720

Regarding: Project: 21001001-13
 EML ID: 616009

Approved by:

Lab Manager
Dr. Kamashwaran Ramanathan

Dates of Analysis:
Spore trap analysis: 01-11-2010

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.

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

Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Larry Sandhu
Re: 21001001-13

Date of Sampling: 01-09-2010
Date of Receipt: 01-11-2010
Date of Report: 01-11-2010

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21001001-13TM01OUTLS		21001001-13TM02LS		21001001-13TM03LS		21001001-13TM04LS	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	2729697-1		2729698-1		2729699-1		2729700-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*	47	2,500			2	110		
Aureobasidium								
Basidiospores*	105	5,600	5	270	2	110	2	110
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	16	850						
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown	1	13	1	13	1	13	1	13
Penicillium/Aspergillus types†	2	110	1	53				
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*					1	13		
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		3+		3+		2+	
Hyphal fragments/m3	13		< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		9,100		330		240		120

Comments:

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

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

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

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

‡ A "Version" 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.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Larry Sandhu
Re: 21001001-13

Date of Sampling: 01-09-2010
Date of Receipt: 01-11-2010
Date of Report: 01-11-2010

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21001001-13TM05LS		21001001-13TM06LS		21001001-13TM07LS		21001001-13TM08LS	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	2729701-1		2729702-1		2729703-1		2729704-1	
	raw ct.	spores/m3						
Alternaria								
Arthrinium								
Ascospores*							1	53
Aureobasidium								
Basidiospores*	2	110	2	110	2	110	1	53
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	1	53					1	53
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown			3	40			1	13
Penicillium/Aspergillus types†			1	53				
Pithomyces								
Rusts*					1	13		
Smuts*, Periconia, Myxomycetes*			1	13				
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		3+		3+		3+	
Hyphal fragments/m3	< 13		< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		160		210		120		170

Comments:

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

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

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

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

‡ A "Version" 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.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Larry Sandhu
Re: 21001001-13

Date of Sampling: 01-09-2010
Date of Receipt: 01-11-2010
Date of Report: 01-11-2010

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21001001-13TM09LS		21001001-13TM10LS		21001001-13TM11LS		21001001-13TM12OUTLS	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	2729705-1		2729706-1		2729707-1		2729708-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*					6	320	47	2,500
Aureobasidium								
Basidiospores*	1	53			33	1,800	125	6,700
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	1	53	1	53	4	210	22	1,200
Curvularia								
Epicoccum							1	13
Fusarium								
Myrothecium								
Nigrospora								
Other brown								
Penicillium/Aspergillus types†			1	53	2	110	2	110
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*								
Stachybotrys								
Stemphylium							2	27
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		3+		3+		3+	
Hyphal fragments/m3	< 13		< 13		13		27	
Pollen/m3	< 13		< 13		< 13		13	
Skin cells (1-4+)	1+		1+		1+		< 1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		110		110		2,400		10,000

Comments:

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

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

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

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

‡ A "Version" 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.



HYGIENE TECHNOLOGIES INTERNATIONAL

Hygiene Technologies International, Inc.

1075 De Anza Boulevard, Suite 100
Folsom, CA 95630-1512
TEL: 916-952-0370
FAX: 916-952-0374
WWW.HYGIENETECH.COM

Request For Analysis

Project Number/~~Purchase Order~~ 2600001-13 Date Submitted: 1/9/10
 Project Contact: L. Sandhu Turnaround Required: same day
 Lab Destination: EMLAB Lab Contact: sample receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
<u>260001-13 TMO10LS</u>	<u>10 LA</u>	<u>Procal</u>	<u>S.p. trap</u>
<u>TMO2LS</u>			
<u>TMO3LS</u>			
<u>TMO4LS</u>			
<u>TMO5LS</u>			
<u>TMO6LS</u>			
<u>TMO7LS</u>			
<u>TMO8LS</u>			
<u>TMO9LS</u>			
<u>TMO10LS</u>			
<u>TMO11LS</u>			
<u>TMO12LS</u>			

Special Instructions:

1. Sampled by: Sandhu on 1/8/10 @ 15:40 Received by: _____
 2. Relinquished by: Sandhu on 1/9/10 @ 12:20 Received by: WPM 1/11/10 9:00
 3. Relinquished by: _____ Received by: _____
Please include signature, date, and time.

Lab Use Only:





Report for:

Mr. Wesley Frey, Mr. Larry Sandhu
Hygiene Technologies International, Inc.: Northern California
1854 East Fir Ave., Suite 205
Fresno, CA 93720

Regarding: Project: 21001001-12
EML ID: 615976

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:

Spore trap analysis: 01-11-2010

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

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21001001-12

Date of Receipt: 01-11-2010
Date of Report: 01-11-2010

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21001001-12-TM01OUTWF		21001001-12-TM02WF		21001001-12-TM03WF		21001001-12-TM04WF	
Comments (see below)	None		A		B		C	
Lab ID-Version‡:	2729504-1		2729505-1		2729506-1		2729507-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*	16	850			1	53		
Aureobasidium								
Basidiospores*	30	17,000	1	53	7	370		
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	8	430			2	110		
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Oidium	2	27						
Penicillium/Aspergillus types†	3	160	47	630	32	550		
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Background debris (1-4+)††	3+		3+		3+		3+	
Hyphal fragments/m3	< 13		13		< 13		13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		< 1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		18,000		680		1,100		< 13

Comments: A) The 47 raw count *Penicillium/Aspergillus* type spores were present as a single clump. B) 29 of the raw count

Penicillium/Aspergillus type spores were present as a single clump. C) 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.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21001001-12

Date of Receipt: 01-11-2010
Date of Report: 01-11-2010

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21001001-12-TM05WF		21001001-12-TM06WF	
Comments (see below)	None		None	
Lab ID-Version‡:	2729508-1		2729509-1	
	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria				
Arthrinium				
Ascospores*				
Aureobasidium				
Basidiospores*	18	960		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	1	53		
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other colorless				
Penicillium/Aspergillus types†	1	53	42	2,200
Pithomyces				
Rusts*				
Smuts*, Periconia, Myxomycetes*				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Background debris (1-4+)††	3+		3+	
Hyphal fragments/m3	13		13	
Pollen/m3	< 13		< 13	
Skin cells (1-4+)	1+		1+	
Sample volume (liters)	75		75	
§ TOTAL SPORES/m3		1,100		2,200

• 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.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu
Re: 21001001-12

Date of Receipt: 01-11-2010
Date of Report: 01-11-2010

MoldRANGE™: Extended Outdoor Comparison**Outdoor Location: 21001001-12-TM01OUTWF**

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: January				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	-	7	13	170	30	7	27	230	57
Bipolaris/Drechslera group	-	7	13	190	11	7	13	130	13
Chaetomium	-	7	13	220	7	7	13	120	19
Cladosporium	430	17	270	4,800	87	53	630	7,000	97
Curvularia	-	7	13	410	10	7	13	230	7
Nigrospora	-	7	13	170	10	7	13	180	8
Penicillium/Aspergillus types	160	20	160	2,200	79	33	210	2,500	85
Stachybotrys	-	7	13	750	2	7	13	270	5
Torula	-	7	13	160	6	7	13	150	12
Seldom found growing indoors**									
Ascospores	850	10	110	2,200	61	13	110	2,000	71
Basidiospores	17,000	13	210	10,000	85	13	210	7,500	93
Oidium	27	7	13	190	5	7	13	190	20
Rusts	-	7	13	200	10	7	13	270	28
Smuts, Periconia, Myxomycetes	-	7	27	280	54	8	40	500	70
§ TOTAL SPORES/m3	18,000								

† The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

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

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

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

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

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu
 Re: 21001001-12

Date of Receipt: 01-11-2010
 Date of Report: 01-11-2010

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21001001-12-TM01OUTWF:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores					13 - 160 - 4,700	76
Basidiospores					13 - 320 - 17,000	91
Cladosporium					27 - 520 - 9,100	93
Oidium					7 - 13 - 230	15
Penicillium/Aspergillus types					25 - 210 - 2,500	78
Smuts, Periconia, Myxomycetes					7 - 40 - 850	69
Total						

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

Indoor Samples

Location: 21001001-12-TM02WF

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 3%	dF: 4 Result: 5.3500 Critical value: 9.4877 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.2000 Critical value: 0.8000 Outside Similar: No	Score: 193 Result: Medium	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Basidiospores				
	Penicillium/Aspergillus types				
	Total				

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu
 Re: 21001001-12

Date of Receipt: 01-11-2010
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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21001001-12-TM03WF

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 5%	dF: 4 Result: 5.3500 Critical value: 9.4877 Inside Similar: Yes	Result: 0.8889	dF: 5 Result: 0.3000 Critical value: 0.8000 Outside Similar: No	Score: 182 Result: Medium	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					53
Basidiospores					370
Cladosporium					110
Penicillium/Aspergillus types					550
Total					1,083

Location: 21001001-12-TM04WF

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 4 Result: 5.3500 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
None Detected					N/A

Location: 21001001-12-TM05WF

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 5%	dF: 4 Result: 5.3500 Critical value: 9.4877 Inside Similar: Yes	Result: 0.7500	dF: 5 Result: 0.5500 Critical value: 0.8000 Outside Similar: No	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					960
Cladosporium					53
Penicillium/Aspergillus types					53
Total					1,066

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21001001-12-TM06WF

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 11%	dF: 4 Result: 5.3500 Critical value: 9.4877 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.0000 Critical value: 0.8000 Outside Similar: No	Score: 294 Result: High
Species Detected		Spores/m3		
		<100	1K	10K
		>100K		
Penicillium/Aspergillus types		2,200		
Total		2,200		

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

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

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

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

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

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MoldSCORE™: Spore Trap Report

Location: 21001001-12-TM03WF

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	100			
Bipolaris/Drechslera group					ND	< 13	100			
Chaetomium					ND	< 13	100			
Cladosporium	█				2	110	105			
Curvularia					ND	< 13	100			
Nigrospora					ND	< 13	100			
Penicillium/Aspergillus types†	█	█	█	█	32	550	182			
Stachybotrys					ND	< 13	100			
Torula					ND	< 13	100			
Seldom found growing indoors**										
Ascospores††	█				1	53	101			
Basidiospores††	█	█			7	370	100			
Rusts					ND	< 13	100			
Smuts, Periconia, Myxomycetes††					ND	< 13	100			
Total						1,083	Final MoldSCORE 182			

Location: 21001001-12-TM04WF

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

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MoldSCORE™: Spore Trap Report

Location: 21001001-12-TM05WF

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium	█				1	53	█			102
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†	█				1	53	█			107
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††	█	█	█	█	18	960	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						1,066				Final MoldSCORE 107

Location: 21001001-12-TM06WF

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium					ND	< 13	█			100
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†	█	█	█	█	42	2,200	█	█	█	294
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††					ND	< 13	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						2,200				Final MoldSCORE 294

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Date of Receipt: 01-11-2010
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MoldSCORE™: Spore Trap Report

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

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

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

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

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



Request For Analysis

Project Number/Request	2/001001-12		Date of Sample	1-11-10
Project Contact	WOS Frey / L Sandhu		Turnaround Request	Same day RUSH
Lab Destination	Emkdb		Lab Number	
SAMPLE ID	TYPE OF SAMPLE	ANALYSIS	LAB USE ONLY	LAB USE ONLY
21001001-12 TMBout	75L	Aircell	TOTAL FUNGI	IP = (open trap)
21001001-12 TMBout				
Special Instructions:				
1. Sampled by: <u>WJ 1-11-10 0750</u> Received by: <u>Brandon Tiedon 1/11/10 0900</u>				
2. Relinquished by: <u>WJ 1-11-10 0830</u> Received by: _____				
3. Relinquished by: _____ Received by: _____				
Lab Use Only:				



Report for:

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

Regarding: Project: 21001001-12
EML ID: 616563

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:

Spore trap analysis: 01-12-2010

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.

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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Re: 21001001-12

Date of Receipt: 01-12-2010
Date of Report: 01-12-2010

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21001001-12-TM01OUTSM		21001001-12-TM02SM		21001001-12-TM03SM		21001001-12-TM04SM		21001001-12-TM05SM	
Comments (see below)	A		A		A		B		A	
Lab ID-Version‡:	2731768-1		2731769-1		2731770-1		2731771-1		2731772-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria										
Arthrinium										
Ascospores*	48	2,600								
Aureobasidium										
Basidiospores*	32	18,000	2	110	2	110	1	53	2	110
Bipolaris/Drechslera group										
Botrytis										
Cercospora										
Chaetomium										
Cladosporium	22	1,200					3	160	1	53
Curvularia										
Epicoccum										
Fusarium										
Myrothecium										
Nigrospora	1	13								
Penicillium/Aspergillus types†	8	430	1	53	1	53	8	150		
Pithomyces										
Rusts*										
Smuts*, Periconia, Myxomycetes*										
Stachybotrys										
Stemphylium										
Torula										
Ulocladium										
Background debris (1-4+)††	2+		3+		3+		3+		3+	
Hyphal fragments/m3	< 13		< 13		< 13		< 13		< 13	
Pollen/m3	27		< 13		< 13		< 13		13	
Skin cells (1-4+)	< 1+		1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75		75	
§ TOTAL SPORES/m3		22,000		160		160		360		160

Comments: A) Analysis of replicate sample is delayed. B) 7 of the raw count *Penicillium/Aspergillus* type spores were present as a single clump. Analysis of replicate sample is delayed.

* 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.

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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21001001-12-TM06SM		21001001-12-TM07SM		21001001-12-TM08SM		21001001-12-TM09OUTSM	
Comments (see below)	A		A		A		C	
Lab ID-Version‡:	2731773-1		2731774-1		2731775-1		2731776-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*							55	2,900
Aureobasidium								
Basidiospores*			1	53	2	110	27	15,000
Bipolaris/Drechslera group								
Botrytis								
Cercospora							1	13
Chaetomium								
Cladosporium			1	53			77	1,900
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Penicillium/Aspergillus types†	2	110					5	270
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*			1	13			3	40
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Background debris (1-4+)††	3+		3+		3+		2+	
Hyphal fragments/m3	< 13		< 13		13		40	
Pollen/m3	< 13		< 13		< 13		270	
Skin cells (1-4+)	1+		1+		1+		< 1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		110		120		110		20,000

Comments: A) Analysis of replicate sample is delayed. C) 54 of the raw count *Cladosporium* spores were present as a single clump. Analysis of replicate sample is delayed.

* 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.

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Northern California
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Date of Receipt: 01-12-2010
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MoldRANGE™: Extended Outdoor Comparison**Outdoor Location: 21001001-12-TM01OUTSM**

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: January				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	-	7	13	170	30	7	27	230	57
Bipolaris/Drechslera group	-	7	13	190	11	7	13	130	13
Chaetomium	-	7	13	220	7	7	13	120	19
Cladosporium	1,200	17	270	4,800	87	53	630	7,000	97
Curvularia	-	7	13	410	10	7	13	230	7
Nigrospora	13	7	13	170	10	7	13	180	8
Penicillium/Aspergillus types	430	20	160	2,200	79	33	210	2,500	85
Stachybotrys	-	7	13	750	2	7	13	270	5
Torula	-	7	13	160	6	7	13	150	12
Seldom found growing indoors**									
Ascospores	2,600	10	110	2,200	61	13	110	2,000	71
Basidiospores	18,000	13	210	10,000	85	13	210	7,500	93
Cercospora	-	7	13	130	4	7	13	130	1
Rusts	-	7	13	200	10	7	13	270	28
Smuts, Periconia, Myxomycetes	-	7	27	280	54	8	40	500	70
§ TOTAL SPORES/m3	22,000								

† The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m³. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

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

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

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

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

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

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MoldRANGE™: Extended Outdoor Comparison**Outdoor Location: 21001001-12-TM09OUTSM**

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: January				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	-	7	13	170	30	7	27	230	57
Bipolaris/Drechslera group	-	7	13	190	11	7	13	130	13
Chaetomium	-	7	13	220	7	7	13	120	19
Cladosporium	1,900	17	270	4,800	87	53	630	7,000	97
Curvularia	-	7	13	410	10	7	13	230	7
Nigrospora	-	7	13	170	10	7	13	180	8
Penicillium/Aspergillus types	270	20	160	2,200	79	33	210	2,500	85
Stachybotrys	-	7	13	750	2	7	13	270	5
Torula	-	7	13	160	6	7	13	150	12
Seldom found growing indoors**									
Ascospores	2,900	10	110	2,200	61	13	110	2,000	71
Basidiospores	15,000	13	210	10,000	85	13	210	7,500	93
Cercospora	13	7	13	130	4	7	13	130	1
Rusts	-	7	13	200	10	7	13	270	28
Smuts, Periconia, Myxomycetes	40	7	27	280	54	8	40	500	70
§ TOTAL SPORES/m3	20,000								

† The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

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

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

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

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

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Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wesley Frey, Syed Mehdi
 Re: 21001001-12

Date of Receipt: 01-12-2010
 Date of Report: 01-12-2010

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21001001-12-TM01OUTSM:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores					13 - 160 - 4,700	76
Basidiospores					13 - 320 - 17,000	91
Cladosporium					27 - 520 - 9,100	93
Nigrospora					7 - 13 - 210	15
Penicillium/Aspergillus types					25 - 210 - 2,500	78
Smuts, Periconia, Myxomycetes					7 - 40 - 850	69
Total						

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

Indoor Samples

Location: 21001001-12-TM02SM

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 6 Result: 1.7411 Critical value: 12.5916 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.5000 Critical value: 0.8000 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Basidiospores				
	Penicillium/Aspergillus types				
	Total				

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 Re: 21001001-12

Date of Receipt: 01-12-2010
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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21001001-12-TM03SM

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 6 Result: 1.7411 Critical value: 12.5916 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.5000 Critical value: 0.8000 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					110
Penicillium/Aspergillus types					53
Total					163

Location: 21001001-12-TM04SM

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 6 Result: 1.7411 Critical value: 12.5916 Inside Similar: Yes	Result: 0.7500	dF: 5 Result: 0.0750 Critical value: 0.8000 Outside Similar: No	Score: 123 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					160
Penicillium/Aspergillus types					150
Total					363

Location: 21001001-12-TM05SM

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 6 Result: 1.7411 Critical value: 12.5916 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.7000 Critical value: 0.8000 Outside Similar: No	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					110
Cladosporium					53
Total					163

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wesley Frey, Syed Mehdi
 Re: 21001001-12

Date of Receipt: 01-12-2010
 Date of Report: 01-12-2010

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21001001-12-TM06SM

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 6 Result: 1.7411 Critical value: 12.5916 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.0000 Critical value: 0.8000 Outside Similar: No	Score: 117 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Penicillium/Aspergillus types					110
Total					110

Location: 21001001-12-TM07SM

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 6 Result: 1.7411 Critical value: 12.5916 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.3857 Critical value: 0.7714 Outside Similar: No	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					53
Smuts, Periconia, Myxomycetes					13
Total					119

Location: 21001001-12-TM08SM

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 6 Result: 1.7411 Critical value: 12.5916 Inside Similar: Yes	Result: 0.3333	dF: 5 Result: 0.7500 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					110
Total					110

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Re: 21001001-12

Date of Receipt: 01-12-2010
Date of Report: 01-12-2010

MoldSTAT™: Supplementary Statistical Spore Trap Report

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

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

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

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

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Date of Receipt: 01-12-2010
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MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21001001-12-TM09OUTSM:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores					13 - 160 - 4,700	76
Basidiospores					13 - 320 - 17,000	91
Cercospora					7 - 27 - 440	10
Cladosporium					27 - 520 - 9,100	93
Penicillium/Aspergillus types					25 - 210 - 2,500	78
Smuts, Periconia, Myxomycetes					7 - 40 - 850	69
Total						

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

Indoor Samples

Location: 21001001-12-TM02SM

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 6 Result: 1.7411 Critical value: 12.5916 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.5714 Critical value: 0.7714 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Basidiospores				
	Penicillium/Aspergillus types				
	Total				

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21001001-12-TM03SM

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 6 Result: 1.7411 Critical value: 12.5916 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.5714 Critical value: 0.7714 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					110
Penicillium/Aspergillus types					53
Total					163

Location: 21001001-12-TM04SM

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 6 Result: 1.7411 Critical value: 12.5916 Inside Similar: Yes	Result: 0.6667	dF: 6 Result: 0.3714 Critical value: 0.7714 Outside Similar: No	Score: 123 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					160
Penicillium/Aspergillus types					150
Total					363

Location: 21001001-12-TM05SM

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 6 Result: 1.7411 Critical value: 12.5916 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.7143 Critical value: 0.7714 Outside Similar: No	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					110
Cladosporium					53
Total					163

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Date of Receipt: 01-12-2010
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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21001001-12-TM06SM

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 6 Result: 1.7411 Critical value: 12.5916 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.2000 Critical value: 0.7714 Outside Similar: No	Score: 117 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Penicillium/Aspergillus types					110
Total					110

Location: 21001001-12-TM07SM

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 6 Result: 1.7411 Critical value: 12.5916 Inside Similar: Yes	Result: 0.6667	dF: 6 Result: 0.5000 Critical value: 0.7714 Outside Similar: No	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					53
Smuts, Periconia, Myxomycetes					13
Total					119

Location: 21001001-12-TM08SM

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 6 Result: 1.7411 Critical value: 12.5916 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.7143 Critical value: 0.7714 Outside Similar: No	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					110
Total					110

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MoldSTAT™: Supplementary Statistical Spore Trap Report

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

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MoldSCORE™: Spore Trap Report

Location: 21001001-12-TM03SM

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†	█				1	53				108
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††	█				2	110				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						163	Final MoldSCORE 108			

Location: 21001001-12-TM04SM

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium	█				3	160				109
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†	█				8	150				123
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††	█				1	53				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						363	Final MoldSCORE 123			

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MoldSCORE™: Spore Trap Report

Location: 21001001-12-TM05SM

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				103
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					2	110				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						163	Final MoldSCORE 103			

Location: 21001001-12-TM06SM

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					2	110				117
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						110	Final MoldSCORE 117			

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MoldSCORE™: Spore Trap Report

Location: 21001001-12-TM07SM

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium	█				1	53	█			103
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††	█				1	53	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††	█				1	13	█			103
Total						119				Final MoldSCORE 103

Location: 21001001-12-TM08SM

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium					ND	< 13	█			100
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††	█				2	110	█			101
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						110				Final MoldSCORE 101

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Syed Mehdi
Re: 21001001-12

Date of Receipt: 01-12-2010
Date of Report: 01-12-2010

MoldSCORE™: Spore Trap Report

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

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

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

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

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wesley Frey, Syed Mehdi
 Re: 21001001-12

Date of Receipt: 01-12-2010
 Date of Report: 01-12-2010

MoldSCORE™: Spore Trap Report

Location: 21001001-12-TM03SM

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	100			
Bipolaris/Drechslera group					ND	< 13	100			
Chaetomium					ND	< 13	100			
Cladosporium					ND	< 13	100			
Curvularia					ND	< 13	100			
Nigrospora					ND	< 13	100			
Penicillium/Aspergillus types†	█				1	53	108			
Stachybotrys					ND	< 13	100			
Torula					ND	< 13	100			
Seldom found growing indoors**										
Ascospores††					ND	< 13	100			
Basidiospores††	█				2	110	100			
Rusts					ND	< 13	100			
Smuts, Periconia, Myxomycetes††					ND	< 13	100			
Total						163	Final MoldSCORE 108			

Location: 21001001-12-TM04SM

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	100			
Bipolaris/Drechslera group					ND	< 13	100			
Chaetomium					ND	< 13	100			
Cladosporium	█				3	160	108			
Curvularia					ND	< 13	100			
Nigrospora					ND	< 13	100			
Penicillium/Aspergillus types†	█				8	150	123			
Stachybotrys					ND	< 13	100			
Torula					ND	< 13	100			
Seldom found growing indoors**										
Ascospores††					ND	< 13	100			
Basidiospores††	█				1	53	100			
Rusts					ND	< 13	100			
Smuts, Periconia, Myxomycetes††					ND	< 13	100			
Total						363	Final MoldSCORE 123			

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wesley Frey, Syed Mehdi
 Re: 21001001-12

Date of Receipt: 01-12-2010
 Date of Report: 01-12-2010

MoldSCORE™: Spore Trap Report

Location: 21001001-12-TM05SM

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				102
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					2	110				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						163				Final MoldSCORE 102

Location: 21001001-12-TM06SM

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					2	110				117
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						110				Final MoldSCORE 117

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wesley Frey, Syed Mehdi
 Re: 21001001-12

Date of Receipt: 01-12-2010
 Date of Report: 01-12-2010

MoldSCORE™: Spore Trap Report

Location: 21001001-12-TM07SM

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	100			
Bipolaris/Drechslera group					ND	< 13	100			
Chaetomium					ND	< 13	100			
Cladosporium	█				1	53	103			
Curvularia					ND	< 13	100			
Nigrospora					ND	< 13	100			
Penicillium/Aspergillus types†					ND	< 13	100			
Stachybotrys					ND	< 13	100			
Torula					ND	< 13	100			
Seldom found growing indoors**										
Ascospores††					ND	< 13	100			
Basidiospores††	█				1	53	100			
Rusts					ND	< 13	100			
Smuts, Periconia, Myxomycetes††	█				1	13	103			
Total						119	Final MoldSCORE 103			

Location: 21001001-12-TM08SM

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	100			
Bipolaris/Drechslera group					ND	< 13	100			
Chaetomium					ND	< 13	100			
Cladosporium					ND	< 13	100			
Curvularia					ND	< 13	100			
Nigrospora					ND	< 13	100			
Penicillium/Aspergillus types†					ND	< 13	100			
Stachybotrys					ND	< 13	100			
Torula					ND	< 13	100			
Seldom found growing indoors**										
Ascospores††					ND	< 13	100			
Basidiospores††	█				2	110	102			
Rusts					ND	< 13	100			
Smuts, Periconia, Myxomycetes††					ND	< 13	100			
Total						110	Final MoldSCORE 102			

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Syed Mehdi
Re: 21001001-12

Date of Receipt: 01-12-2010
Date of Report: 01-12-2010

MoldSCORE™: Spore Trap Report

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

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

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

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

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

Cherry Hill, NJ: 1936 Olney Avenue, Cherry Hill, NJ 08003 * (866) 871-1984
 Phoenix, AZ: 1501 West Knudsen Drive, Phoenix, AZ 85027 * (800) 651-4802
 San Bruno, CA: 115D Bayhill Drive, #100, San Bruno, CA 94066 * (866) 888-6653

REQUESTED SERVICE

Barcode: 000616563

Non-Culturable

Spore Trap
 Type: Swab
 Bulk

BioCassette™ Andersen, SAS
 Water, Bulk, Dust, Soil, Contact Plate

Company: **HYGIENETECH**

Contact: _____

Phone: _____

Address: _____

Special Instructions: _____

Project ID: _____

Project Desc.: _____

Project Date & Time: **01/12/10 6:12 AM**

Zip Code: _____

IPD Number: **21001001-12**

STD - Standard (DEFAULT)
 ND - Next Business Day
 SD - Same Business Day Rush
 WH - Weekend/Holiday

STATION	DATE	TIME	WIND	RAIN	SNOW	FOG	WEATHER
21001001-1	01/12/10	6:12 AM					None
21001001-2	01/12/10	6:12 AM					None
21001001-3	01/12/10	6:12 AM					None
21001001-4	01/12/10	6:12 AM					None
21001001-5	01/12/10	6:12 AM					None
21001001-6	01/12/10	6:12 AM					None
21001001-7	01/12/10	6:12 AM					None
21001001-8	01/12/10	6:12 AM					None
21001001-9	01/12/10	6:12 AM					None
21001001-10	01/12/10	6:12 AM					None
21001001-11	01/12/10	6:12 AM					None
21001001-12	01/12/10	6:12 AM					None

TEST	RESULTS	DATE	TIME
Fungi - Spore Trap Analysis	✓		
Spore Trap Analysis - Other particles	✓		
Direct Microscopic Exam (Qualitative)	✓		
Quantitative Spore Count Direct Exam	✓		
1-Media Surface Fungi (Genus ID + Asp. spp.)	✓		
2-Media Surface Fungi (Genus ID + Asp. spp.)	✓		
3-Media Surface Fungi (Genus ID + Asp. spp.)	✓		
Culturable Air Fungi (Genus ID + Asp. spp.)	✓		
Gram Stain and Counts (Culturable Air and Surface Bacteria)	✓		
Legionella culture	✓		
Total Coliform, E.coli (Presence/Absence)	✓		
Membrane Filtration (Please specify organism)	✓		
MPN Bacteria (Please specify organism)	✓		
QuantTray - Sewage Screen	✓		
Asbestos Analysis - PCM Airborne Fiber Count (NIOSH 7400)	✓		
Asbestos Analysis - PLM (EPA method 600/R-93-116)	✓		
PCR (Please specify test)	✓		

BC - BioCassette™

A1S - Andersen

SAS - Surface Air Sampler

CP - Contact Plate

T - Tape Trap; Zefon, Allergenco, Burkard...
 SW - Swab
 B - Bulk
 NP - Non-Potable Water

D - Dust
 SO - Soil

ST - Spore Trap; Zefon, Allergenco, Burkard...
 P - Potable Water
 NP - Non-Potable Water

Signature: *[Signature]*

Date: 01/12/10 6:12 AM

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Report for:

Mr. Wesley Frey, Mr. Larry Sandhu
Hygiene Technologies International, Inc.: Northern California
1854 East Fir Ave., Suite 205
Fresno, CA 93720

Regarding: Project: 21001001-17
EML ID: 616721

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:

Spore trap analysis: 01-13-2010

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.

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

Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wesley Frey, Mr. Larry Sandhu
 Re: 21001001-17

Date of Sampling: 01-12-2010
 Date of Receipt: 01-13-2010
 Date of Report: 01-13-2010

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21001001-17-TM01LS		21001001-17-TM02OUTLS	
Comments (see below)	None		A	
Lab ID-Version‡:	2732680-1		2732681-1	
	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria			2	27
Arthrinium				
Ascospores*			24	1,300
Aureobasidium				
Basidiospores*			189	10,000
Bipolaris/Drechslera group				
Botrytis			4	53
Chaetomium				
Cladosporium			81	3,700
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Other brown	1	13		
Other colorless				
Penicillium/Aspergillus types†			12	640
Pithomyces				
Rusts*				
Smuts*, Periconia, Myxomycetes*			5	67
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Background debris (1-4+)††	2+		2+	
Hyphal fragments/m3	< 13		53	
Pollen/m3	< 13		230	
Skin cells (1-4+)	1+		< 1+	
Sample volume (liters)	75		75	
§ TOTAL SPORES/m3		13		16,000

Comments: A) 16 of the raw count *Cladosporium* spores were present as a single clump.
 † Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.
 † The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
 †† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.
 The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.
 ‡ A "Version" 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
1854 East Fir Ave., Suite 205
Fresno, CA 93720

Regarding: Project: 21001001-7
EML ID: 616967

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 01-14-2010

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: 21001001-7

Date of Submittal: 01-13-2010
 Date of Receipt: 01-13-2010
 Date of Report: 01-14-2010

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‡: 2733496-1: Tape sample 21001001-7-TL26LS				
Moderate	Very few	4+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Mold growth
Lab ID-Version: 2733497-1: Tape sample 21001001-7-TL27LS				
Heavy	Very few	4+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Mold growth
Lab ID-Version: 2733498-1: Tape sample 21001001-7-TL28LS				
Very Heavy	Very few	None	None	Normal trapping
Lab ID-Version: 2733499-1: Tape sample 21001001-7-TL29LS				
Very Heavy	Very few	3+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Mold growth
Lab ID-Version: 2733500-1: Tape sample 21001001-7-TL30LS				
Heavy	Very few	4+ 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".



EMLab P&K

Report for:

Mr. Wesley Frey, Syed Mehdi, Mr. Larry Sandhu
Hygiene Technologies International, Inc.: Northern California
1854 East Fir Ave., Suite 205
Fresno, CA 93720

Regarding: Project: 21001001-7
EML ID: 616331

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:

Direct microscopic exam (Qualitative): 01-13-2010

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, Syed Mehdi, Mr. Larry Sandhu
 Re: 21001001-7

Date of Receipt: 01-12-2010
 Date of Report: 01-13-2010

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‡: 2730813-1: Tape sample 21001001-7-TL30SM				
Heavy	Very few	3+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Mold growth
Lab ID-Version: 2730814-1: Tape sample 21001001-7-TL31LS				
Heavy	Very few	3+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Mold growth
Lab ID-Version: 2730815-1: Tape sample 21001001-7-TL32LS				
Heavy	Very few	4+ Colorless spores typical of <i>Penicillium/Aspergillus</i> (spores, hyphae)	None	Mold growth
Lab ID-Version: 2730816-1: Tape sample 21001001-7-TL33LS				
Heavy	Very few	4+ <i>Penicillium</i> species (spores, hyphae, conidiophores)	None	Mold growth
Lab ID-Version: 2730817-1: Tape sample 21001001-7-TL34LS				
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".

