



HYGIENETECH

Hygiene Technologies International, Inc.

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July 15, 2009

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

Document No. 20906001.7

Attention: David Gau

Regarding: Limited Fungal Growth Exposure Assessment Survey
Elevator Shaft Abatement and Encapsulation Monitoring

Dear Mr. Gau:

On June 26 through 28, 2009, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) monitored elevator shaft mold remediation and encapsulation work within the State of California Board of Equalization (BOE) building being performed by JLS Environmental Services, Inc. (JLS) in accordance with the protocols set forth in the document "Letter Summary Report – Elevator Shaft Mitigation Procedures", prepared by BioMax Environmental, LLC, dated March 19, 2009. During the monitored period, air samples for fungal spores were collected in random elevator lobby areas and within the elevator cars while the remediation was ongoing, at the conclusion of the cleaning, and during the ensuing encapsulation. The survey findings, along with the analytical data, conclusions, and conclusions appear below.

On the survey dates, air samples were collected for total (viable and nonviable) fungi analyses using a Zefon brand Bio-Pump™ equipped with Zefon Air-O-Cell™ cassettes. 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 fungi assessment analytical data with supporting and background information appear in the enclosed table.

As presented in Table 20906001-106, the airborne spore count data recorded showed mostly common fungal spore types outdoors, such as *Alternaria*, ascospores, basidiospores, *Chaetomium*, *Cladosporium*, colorless spores typical of *Penicillium* and *Aspergillus* species, *Epicoccum*, *Nigrospora*, *Oidium*, other brown, rusts, smuts, *Stemphylium*, and/or *Torula*, with basidiospores or *Cladosporium* predominating. With one exception, the data in the interior elevator lobby areas showed low airborne concentrations of common fungal spore types that were consistent with those found outdoors, and the overall data within these areas were well below the overall data recorded outdoors. The notable exception occurred within the enclosed 11th Floor elevator lobby area, where a low but detectable level of *Stachybotrys* was detected on Sunday, July 28th in the afternoon. The air samples collected in the elevator cars, with one exception, also showed low airborne concentrations of common fungal spore types that were consistent with those found



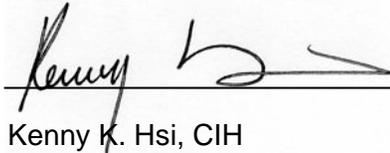
outdoors, along with overall data that were well below the overall data recorded outdoors. The only exception occurred within Elevator Car #8 on Sunday, June 28th, prior to the start of the work shift. That air sample indicated a low but detectable level of *Stachybotrys*. This presence of *Stachybotrys* within Elevator Car #8 was likely attributable to the opening and closing of the elevator car hatch to facilitate the exchange of tools and supplies to the JLS workers riding on top of the car. However, note that a subsequent air sample collected within Elevator Car #8 approximately nine hours later at the conclusion of remediation work indicated only low levels of common fungal spore types. Additionally, the presence of *Stachybotrys* within the 11th Floor elevator lobby barrier was most like caused by the exchange of shaft air while workers entered and exited the elevators cars in that area. Such results would be expected within the 11th Floor barrier. Please also note that once the elevator shaft cleaning was finished, the interior of the elevator cars were vacuumed with equipment having high efficiency particulate air (HEPA) filtration and then wet wiped by JLS personnel. Collectively, 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.

Be advised that the data provided in this report only represent limited fungal growth 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



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**TABLE 20906001-106
AIRBORNE TOTAL FUNGI RESULTS
ELEVATOR SHAFT ABATEMENT
SACRAMENTO, CALIFORNIA
JUNE 26 THROUGH 29, 2009**

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

SAMPLE NUMBER	20906001-TM551OUTCL	20906001-TM552CL	20906001-TM553CL	20906001-TM554CL
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 25 feet east of building; approximately five feet above ground/Normal outdoor activities	1 st Floor; High Rise Elevator Lobby; about center; approximately five feet above floor/Elevator shaft abatement activities in progress	21 st Floor; elevator lobby; about center; approximately five feet above floor/ Sampling activities only	11 th Floor; High Rise Elevator Lobby; within barrier; about center; approximately five feet above floor/ Elevator shaft abatement activities in progress
DATE	06-26-09	06-26-09	06-26-09	06-27-09
START/STOP	18:30:00/18:35:00	18:50:00/18:55:00	21:15:00/21:20:00	00:30:00/00:35:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria			13	
Ascospores	160	53		
Aureobasidium				
Basidiospores	430			110
Bipolaris/Drechslera group				
Botrytis				
Chaetomium	160			
Cladosporium	750		160	53
Epicoccum	13			
Myrothecium				
Nigrospora				
Other brown		13	13	
Penicillium/Aspergillus types	210	110		
Pithomyces				
Rusts				
Scopulariopsis				
Smuts (Periconia, Myxomycetes)	310	27	27	
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	150	<13	110	<13
Background debris*	2+	1+	2+	1+
TOTAL	2,000	200	210	160

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



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

SAMPLE NUMBER	20906001-TM555CL	20906001-TM556CL	20906001-TM557CL	20906001-TM558CL
SAMPLING LOCATION/ACTIVITIES	15 th Floor; elevator lobby; about center; approximately five feet above floor/Elevator shaft abatement activities in progress	18 th Floor; elevator lobby; about center; approximately five feet above floor/Elevator shaft abatement activities in progress	23 rd Floor; southern hallway immediately south of elevator lobby containment; about center; approximately five feet above floor/ Post abatement; sampling activities only	16 th Floor; elevator lobby; about center; approximately five feet above floor/Post abatement; sampling activities only
DATE	06-27-09	06-27-09	06-27-09	06-27-09
START/STOP	01:27:00/1:32:00	01:53:00/1:58:00	02:10:00/2:15:00	02:19:00/2:24:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores				
Aureobasidium				
Basidiospores	110	53	110	110
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		53	110	
Curvularia			13	
Epicoccum				
Myrothecium				
Nigrospora				
Penicillium/Aspergillus types		53		
Pithomyces				
Rusts			13	
Scopulariopsis				
Smuts (Periconia, Myxomycetes)		13	40	
Stachybotrys				
Stemphylium				
Torula			13	
Ulocladium				
Hyphal fragments	<13	27	13	<13
Background debris*	1+	2+	3+	2+
TOTAL	110	170	290	110

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



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

SAMPLE NUMBER	20906001-TM559CL	20906001-TM560OUTCL	20906001-TM8001LS	20906001-TM8002LS
SAMPLING LOCATION/ACTIVITIES	11 th Floor; High Rise Elevator Lobby; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only	Outdoors; about 20 feet north of building; approximately five feet above ground/Normal outdoor activities	Elevator Car # 8; between 4 th and 5 th floors; about center; approximately five feet above floor/ Elevator shaft abatement activities in progress	Elevator Car #8; between 10 th and 11 th Floors; about center; approximately five feet above floor/ Elevator shaft abatement activities in progress
DATE	06-27-09	06-27-09	06-26-09	06-26-09
START/STOP	2:30:00/2:35:00	2:40:00/2:45:00	20:47:00/20:52:00	23:35:00/23:40:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria		40		
Ascospores		480	110	
Aureobasidium				
Basidiospores	110	1,900		53
Bipolaris/Drechslera group				
Botrytis			13	
Chaetomium		13		
Cladosporium	370	1,700	160	210
Epicoccum				
Nigrospora			13	
Oidium				
Other brown		13		
Penicillium/Aspergillus types	110	320		
Pithomyces				
Rusts	13			
Scopulariopsis				
Smuts (Periconia, Myxomycetes)	710	150	27	13
Stachybotrys chartarum (atra)				
Stemphylium				
Torula		13		
Ulocladium				
Hyphal fragments	13	120	<13	27
Background debris*	3+	2+	3+	3+
TOTAL	1,300	4,500	320	280

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



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

SAMPLE NUMBER	20906001- TM8003LS	20906001- TM8004LS	20906001- TM561OUTCL	20906001- TM562CL
SAMPLING LOCATION/ACTIVITIES	11 th Floor; Elevator Car # 8; about center; approximately five feet above floor/Post abatement; sampling activities only	11 th Floor; Elevator Car #7; about center; approximately five feet above floor/Post abatement; sampling activities only	Outdoors; about 25 feet north of building; approximately five feet above ground/Normal outdoor activities	18 th Floor; elevator lobby; about center; approximately five feet above floor/Elevator shaft abatement activities in progress
DATE	06-27-09	06-27-09	06-27-09	06-27-09
START/STOP	02:36:00/02:41:00	02:38:00/02:43:00	10:05:00/10:10:00	10:35:00/10:40:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria			53	
Ascospores		53	530	53
Aureobasidium				
Basidiospores	110	210	2,600	160
Bipolaris/Drechslera group				
Botrytis				
Chaetomium			53	
Cladosporium	110	53	2,000	53
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium		13	53	
Other brown				
Penicillium/Aspergillus types	110	53	480	
Pithomyces				
Rusts			13	
Scopulariopsis				
Smuts (Periconia, Myxomycetes)	170	150	560	27
Stachybotrys				
Stemphylium			13	
Torula				
Ulocladium				
Hyphal fragments	<13	40	330	13
Background debris*	2+	3+	2+	1+
TOTAL	490	530	6,300	290

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

SAMPLE NUMBER	20906001-TM563CL	20906001-TM564CL	20906001-TM565CL	20906001-TM566CL
SAMPLING LOCATION/ACTIVITIES	21 st Floor; elevator lobby; about center; approximately five feet above floor/Elevator shaft abatement activities in progress	24 th Floor; elevator lobby; about center; approximately five feet above floor/Elevator shaft abatement activities in progress	1 st Floor; High Rise Elevator Lobby; about center; approximately five feet above floor/ Elevator shaft abatement activities in progress	23 rd Floor; southern hallway immediately south of elevator lobby containment; about center; approximately five feet above floor/ Post abatement; sampling activities only
DATE	06-27-09	06-27-09	06-27-09	06-27-09
START/STOP	12:45:00/12:50:00	14:15:00/14:20:00	16:20:00/16:25:00	18:30:00/18:35:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores	110			53
Aureobasidium				
Basidiospores		430	160	270
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53	530	160	270
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Other brown				
Penicillium/Aspergillus types	53	1,800	53	430
Pithomyces				
Rusts				13
Scopulariopsis				
Smuts (Periconia, Myxomycetes)	13	27		80
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				13
Hyphal fragments	<13	80	27	67
Background debris*	1+	2+	1+	2+
TOTAL	230	2,700	370	1,100

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

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

SAMPLE NUMBER	20906001-TM567CL	20906001-TM568CL	20906001-TM569OUTCL	20906001-TM8005LS
SAMPLING LOCATION/ACTIVITIES	1 st Floor; High Rise Elevator Lobby; about center; approximately five feet above floor/ Post abatement; sampling activities only	11 th Floor; High Rise Elevator Lobby; within containment; about center; approximately five feet above floor/ Post abatement; sampling activities only	Outdoors; approximately 25 feet north of building; approximately five feet above ground/Normal outdoor activities	21 st Floor; Elevator Car #8; about center; approximately five feet above floor/ Elevator shaft abatement activities in progress
DATE	06-27-09	06-27-09	06-27-09	06-27-09
START/STOP	18:40:00/18:45:00	18:55:00/19:00:00	19:10:00/19:15:00	12:44:00/12:49:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria			27	
Ascospores		53	370	
Aureobasidium				
Basidiospores	110	270	1,600	53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	110	110	1,300	
Epicoccum	13			
Fusarium				
Nigrospora			13	
Oidium			13	
Other brown				
Penicillium/Aspergillus types			590	53
Pithomyces				
Rusts			40	
Scopulariopsis				
Smuts (Periconia, Myxomycetes)		13	270	13
Stachybotrys				
Stemphylium				
Torula		13		
Ulocladium				
Hyphal fragments	40	40	250	40
Background debris*	1+	2+	2+	2+
TOTAL	230	450	4,300	120

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

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

SAMPLE NUMBER	20906001- TM5700UTCL	20906001- TM571CL	20906001- TM572CL	20906001- TM573CL
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 25 feet north of building; approximately five feet above ground/Normal outdoor activities	11 th Floor; Elevator Car #8; about center; approximately five feet above floor/Sampling activities only	11 th Floor; Elevator Car #9; about center; approximately five feet above floor/Sampling activities only	1 st Floor; High Rise Elevator Lobby; about center; approximately five feet above floor/ Shaft encapsulation activities in progress
DATE	06-28-09	06-28-09	06-28-09	06-28-09
START/STOP	09:40:00/9:45:00	09:50:00/9:55:00	09:57:00/10:02:00	12:35:00/12:40:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	27		13	
Ascospores	210			
Aureobasidium				
Basidiospores	3,800	590	160	
Bipolaris/Drechslera group		13		
Botrytis				
Chaetomium	27			
Cladosporium	1,200	320	53	53
Epicoccum				
Fusarium				
Nigrospora				
Oidium	53			
Other brown			40	
Penicillium/Aspergillus types	53		53	
Pithomyces				
Rusts			13	
Scopulariopsis				
Smuts (Periconia, Myxomycetes)	280	13	93	
Stachybotrys		13		
Stemphylium				
Torula				13
Ulocladium				
Hyphal fragments	27	40	27	<13
Background debris*	2+	3+	3+	1+
TOTAL	5,700	950	430	67

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



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

SAMPLE NUMBER	20906001-TM574CL	20906001-TM575CL	20906001-TM576CL	20906001-TM577CL
SAMPLING LOCATION/ACTIVITIES	23 rd Floor; southern hallway; outside of barrier; approximately five feet above floor/Shaft encapsulation activities in progress	21 st Floor; elevator lobby; about center; approximately five feet above floor/Shaft encapsulation activities in progress	23 rd Floor; southern hallway; outside of barrier; about center; approximately five feet above floor/Post abatement; sampling activities only	1 st Floor; High Rise Elevator Lobby; about center; approximately five feet above floor/Post abatement; sampling activities only
DATE	06-28-09	06-28-09	06-28-09	06-28-09
START/STOP	12:56:00/13:01:00	16:40:00/16:45:00	17:35:00/17:40:00	17:45:00/17:50:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores	53			
Aureobasidium				
Basidiospores	910	53		210
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	270	53	160	53
Epicoccum				
Fusarium				
Nigrospora				
Other brown			13	
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	40			27
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Unidentified mitosporic fungi				
Hyphal fragments	27	<13	<13	27
Background debris*	3+	2+	2+	1+
TOTAL	1,300	110	170	290

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

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

SAMPLE NUMBER	20906001-TM578CL	20906001-TM579CL	20906001-TM580CL	20906001-TM581CL
SAMPLING LOCATION/ACTIVITIES	11 th Floor; High Rise Elevator Lobby; within containment; about center; approximately five feet above floor/Post abatement; sampling activities only	11 th Floor; Elevator Car #7; about center; approximately five feet above floor; about center/Post abatement; sampling activities only	11 th Floor; Elevator Car #8; about center; approximately five feet above floor/Post abatement; sampling activities only	11 th Floor; Elevator Car #9; about center; approximately five feet above floor/Post abatement; sampling activities only
DATE	06-28-09	06-28-09	06-28-09	06-28-09
START/STOP	18:52:00/18:57:00	18:40:00/18:45:00	18:46:00/18:51:00	18:34:00/18:39:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores		110		
Aureobasidium				
Basidiospores	53	53		320
Bipolaris/Drechslera group	13			
Botrytis				
Chaetomium				
Cladosporium	53	53	53	160
Epicoccum				
Fusarium				
Nigrospora				
Other brown				
Penicillium/Aspergillus types				
Pithomyces		13		
Rusts				13
Scopulariopsis				
Smuts (Periconia, Myxomycetes)	27	13	13	13
Stachybotrys	13			
Stemphylium				
Torula				
Ulocladium			13	
Hyphal fragments	<13	27	27	<13
Background debris*	2+	3+	3+	3+
TOTAL	160	240	80	510

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



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ELEVATOR SHAFT ABATEMENT
SACRAMENTO, CALIFORNIA
JUNE 26 THROUGH 29, 2009**

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

SAMPLE NUMBER	20906001- TM582OUTCL	20906001- TM9001OUTLS	20906001- TM9002LS	
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 25 feet east of building; approximately five feet above ground/Normal outdoor activities	Outdoors; about 25 feet east of building; approximately five feet above ground/Normal outdoor activities	24 th Floor; elevator lobby; about center; approximately five feet above floor/Sampling activities only	This column Intentionally left blank
DATE	06-28-09	06-29-09	06-29-09	
START/STOP	19:02:00/19:07:00	14:02:00/14:07:00	14:14:00/14:19:00	
SAMPLE TIME	5 minutes	5 minutes	5 minutes	
Alternaria	13	27		
Ascospores	110	160		
Aureobasidium				
Basidiospores	1,100	1,000	53	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium	13	13		
Cladosporium	1,100	1,100		
Epicoccum				
Fusarium				
Nigrospora				
Oidium	13			
Other brown	13			
Penicillium/Aspergillus types	110	110	110	
Pithomyces				
Rusts	40	27		
Scopulariopsis				
Smuts (Periconia, Myxomycetes)	110	480	27	
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	93	170	13	
Background debris*	2+	2+	2+	
TOTAL	2,500	2,900	190	

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

EMLab P&K

Report for:

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

Regarding: Project: 20906001
 EML ID: 555679

Approved by:



Lab Manager
Malcolm Moody

Dates of Analysis:
Spore trap analysis: 06-29-2009

Project SOPs: Spore trap analysis (I100000)

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

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

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

Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-26-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20906001-TM551OUTCL		20906001-TM552CL		20906001-TM553CL		20906001-TM554CL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	2466159-1		2466160-1		2466161-1		2466162-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria					1	13		
Arthrinium								
Ascospores*	3	160	1	53				
Aureobasidium								
Basidiospores*	8	430					2	110
Bipolaris/Drechslera group								
Botrytis								
Chaetomium	12	160						
Cladosporium	14	750			3	160	1	53
Curvularia								
Epicoccum	1	13						
Fusarium								
Myrothecium								
Nigrospora								
Other brown			1	13	1	13		
Other colorless								
Penicillium/Aspergillus types†	4	210	2	110				
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*	23	310	2	27	2	27		
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		1+		2+		1+	
Hyphal fragments/m3	150		< 13		110		< 13	
Pollen/m3	40		< 13		< 13		< 13	
Skin cells (1-4+)	None		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORE/m3		2,000		200		210		160

Comments:

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

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20906001

Date of Sampling: 06-26-2009
Date of Receipt: 06-29-2009
Date of Report: 06-29-2009

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20906001-TM555CL		20906001-TM556CL		20906001-TM557CL		20906001-TM558CL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	2466163-1		2466164-1		2466165-1		2466166-1	
	raw ct.	spores/m3						
Alternaria								
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*	2	110	1	53	2	110	2	110
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium			1	53	2	110		
Curvularia					1	13		
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown								
Other colorless								
Penicillium/Aspergillus types†			1	53				
Pithomyces								
Rusts*					1	13		
Smuts*, Periconia, Myxomycetes*			1	13	3	40		
Stachybotrys								
Stemphylium								
Torula					1	13		
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	1+		2+		3+		2+	
Hyphal fragments/m3	< 13		27		13		< 13	
Pollen/m3	< 13		13		13		13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORE/m3		110		170		290		110

Comments:

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

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20906001

Date of Sampling: 06-26-2009
Date of Receipt: 06-29-2009
Date of Report: 06-29-2009

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20906001-TM559CL		20906001-TM560OUTCL	
Comments (see below)	None		A	
Lab ID-Version‡:	2466167-1		2466168-1	
	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria			3	40
Arthrinium				
Ascospores*			9	480
Aureobasidium				
Basidiospores*	2	110	35	1,900
Bipolaris/Drechslera group				
Botrytis				
Chaetomium			1	13
Cladosporium	7	370	49	1,700
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Other brown			1	13
Other colorless				
Penicillium/Aspergillus types†	2	110	6	320
Pithomyces				
Rusts*	1	13		
Smuts*, Periconia, Myxomycetes*	53	710	11	150
Stachybotrys				
Stemphylium				
Torula			1	13
Ulocladium				
Zygomycetes				
Background debris (1-4+)††	3+		2+	
Hyphal fragments/m3	13		120	
Pollen/m3	< 13		40	
Skin cells (1-4+)	1+		None	
Sample volume (liters)	75		75	
§ TOTAL SPORE/m3		1,300		4,500

Comments:A) 24 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" greater than 1 indicates amended data.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.
TestAmerica Environmental Microbiology Laboratory, Inc.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20906001

Date of Sampling: 06-26-2009
Date of Receipt: 06-29-2009
Date of Report: 06-29-2009

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 20906001-TM551OUTCL

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: June				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	-	7	40	380	65	7	27	220	57
Bipolaris/Drechslera group	-	7	13	180	18	7	13	120	13
Chaetomium	160	7	13	120	15	7	13	120	19
Cladosporium	750	53	650	8,600	97	53	630	6,700	97
Curvularia	-	7	13	460	13	7	13	230	7
Epicoccum	13	7	20	350	31	7	13	160	19
Nigrospora	-	7	13	160	10	7	13	170	8
Other brown	-	7	13	93	34	7	13	80	36
Penicillium/Aspergillus types	210	27	190	2,100	79	33	210	2,500	86
Stachybotrys	-	7	13	350	3	7	13	290	5
Torula	-	7	13	160	16	7	13	150	12
Seldom found growing indoors**									
Ascospores	160	13	190	7,200	82	13	110	1,900	71
Basidiospores	430	13	270	15,000	93	13	210	7,000	93
Rusts	-	7	13	210	27	7	13	250	28
Smuts, Periconia, Myxomycetes	310	10	58	1,300	81	8	40	490	70
TOTAL SPORES/M3	2,033								

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

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

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

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

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

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Northern California
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Re: 20906001

Date of Sampling: 06-26-2009
Date of Receipt: 06-29-2009
Date of Report: 06-29-2009

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 20906001-TM560OUTCL

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: June				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	40	7	40	380	65	7	27	220	57
Bipolaris/Drechslera group	-	7	13	180	18	7	13	120	13
Chaetomium	13	7	13	120	15	7	13	120	19
Cladosporium	1,700	53	650	8,600	97	53	630	6,700	97
Curvularia	-	7	13	460	13	7	13	230	7
Epicoccum	-	7	20	350	31	7	13	160	19
Nigrospora	-	7	13	160	10	7	13	170	8
Other brown	13	7	13	93	34	7	13	80	36
Penicillium/Aspergillus types	320	27	190	2,100	79	33	210	2,500	86
Stachybotrys	-	7	13	350	3	7	13	290	5
Torula	13	7	13	160	16	7	13	150	12
Seldom found growing indoors**									
Ascospores	480	13	190	7,200	82	13	110	1,900	71
Basidiospores	1,900	13	270	15,000	93	13	210	7,000	93
Rusts	-	7	13	210	27	7	13	250	28
Smuts, Periconia, Myxomycetes	150	10	58	1,300	81	8	40	490	70
TOTAL SPORES/M3	4,629								

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

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

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

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

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-26-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 20906001-TM551OUTCL:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores				160	13 - 160 - 4,500	76
Basidiospores				430	13 - 310 - 15,000	91
Chaetomium				160	7 - 13 - 130	12
Cladosporium				750	27 - 510 - 8,900	93
Epicoccum				13	7 - 14 - 320	24
Penicillium/Aspergillus types				210	27 - 210 - 2,500	80
Smuts, Periconia, Myxomycetes				310	7 - 40 - 830	69
Total				2,033		

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: 20906001-TM552CL

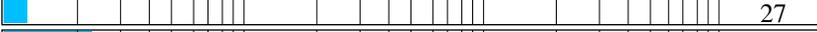
% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 9%	dF: 7 Result: 8.6000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.5455	dF: 8 Result: -0.0595 Critical value: 0.6190 Outside Similar: No	Score: 114 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Ascospores				53
	Other brown				13
	Penicillium/Aspergillus types				110
	Smuts, Periconia, Myxomycetes				27
	Total				203

Client: Hygiene Technologies International, Inc.:
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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20906001-TM553CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 10%	dF: 7 Result: 8.6000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: 0.2542 Critical value: 0.5833 Outside Similar: No	Score: 110 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Cladosporium					160
Other brown					13
Smuts, Periconia, Myxomycetes					27
Total					213

Location: 20906001-TM554CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 8%	dF: 7 Result: 8.6000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.4444	dF: 7 Result: 0.7946 Critical value: 0.6786 Outside Similar: Yes	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					110
Cladosporium					53
Total					163

Location: 20906001-TM555CL

% 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: 7 Result: 8.6000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.5714 Critical value: 0.6786 Outside Similar: No	Score: 109 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					110
Total					110

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 Date of Report: 06-29-2009

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20906001-TM556CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 8%	dF: 7 Result: 8.6000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.7273	dF: 7 Result: 0.8661 Critical value: 0.6786 Outside Similar: Yes	Score: 106 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					53
Penicillium/Aspergillus types					53
Smuts, Periconia, Myxomycetes					13
Total					172

Location: 20906001-TM557CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 14%	dF: 7 Result: 8.6000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.4615	dF: 10 Result: 0.4606 Critical value: 0.5515 Outside Similar: No	Score: 110 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					110
Cladosporium					110
Curvularia					13
Rusts					13
Smuts, Periconia, Myxomycetes					40
Torula					13
Total					299

Client: Hygiene Technologies International, Inc.:
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 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-26-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20906001-TM558CL

% 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: 7 Result: 8.6000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.5714 Critical value: 0.6786 Outside Similar: No	Score: 109 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					110
Total					110

Location: 20906001-TM559CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 64%	dF: 7 Result: 8.6000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.6667	dF: 8 Result: 0.7500 Critical value: 0.6190 Outside Similar: Yes	Score: 195 Result: Medium	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					110
Cladosporium					370
Penicillium/Aspergillus types					110
Rusts					13
Smuts, Periconia, Myxomycetes					710
Total					1,313

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

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

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

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Date of Report: 06-29-2009

MoldSTAT™: Supplementary Statistical Spore Trap Report

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

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Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-26-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 20906001-TM560OUTCL:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria					7 - 27 - 400	52
Ascospores					13 - 160 - 4,500	76
Basidiospores					13 - 310 - 15,000	91
Chaetomium					7 - 13 - 130	12
Cladosporium					27 - 510 - 8,900	93
Other brown					7 - 13 - 100	32
Penicillium/Aspergillus types					27 - 210 - 2,500	80
Smuts, Periconia, Myxomycetes					7 - 40 - 830	69
Torula					7 - 13 - 160	11
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: 20906001-TM552CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 4%	dF: 7 Result: 8.6000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.6154	dF: 9 Result: 0.2167 Critical value: 0.5833 Outside Similar: No	Score: 115 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Ascospores				
	Other brown				
	Penicillium/Aspergillus types				
	Smuts, Periconia, Myxomycetes				
	Total				

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20906001-TM553CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 4%	dF: 7 Result: 8.6000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.6154	dF: 9 Result: 0.1708 Critical value: 0.5833 Outside Similar: No	Score: 113 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Cladosporium					160
Other brown					13
Smuts, Periconia, Myxomycetes					27
Total					213

Location: 20906001-TM554CL

% 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: 7 Result: 8.6000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: 0.7833 Critical value: 0.5833 Outside Similar: Yes	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					110
Cladosporium					53
Total					163

Location: 20906001-TM555CL

% 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: 7 Result: 8.6000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.6667 Critical value: 0.5833 Outside Similar: Yes	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					110
Total					110

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20906001-TM556CL

% 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: 7 Result: 8.6000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.6154	dF: 9 Result: 0.7833 Critical value: 0.5833 Outside Similar: Yes	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					53
Penicillium/Aspergillus types					53
Smuts, Periconia, Myxomycetes					13
Total					172

Location: 20906001-TM557CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 6%	dF: 7 Result: 8.6000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.5333	dF: 11 Result: 0.3364 Critical value: 0.5273 Outside Similar: No	Score: 116 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					110
Cladosporium					110
Curvularia					13
Rusts					13
Smuts, Periconia, Myxomycetes					40
Torula					13
Total					299

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 Date of Report: 06-29-2009

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20906001-TM558CL

% 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: 7 Result: 8.6000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.6667 Critical value: 0.5833 Outside Similar: Yes	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					110
Total					110

Location: 20906001-TM559CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 28%	dF: 7 Result: 8.6000 Critical value: 14.0671 Inside Similar: Yes	Result: 0.5714	dF: 10 Result: 0.5364 Critical value: 0.5515 Outside Similar: No	Score: 219 Result: Medium	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					110
Cladosporium					370
Penicillium/Aspergillus types					110
Rusts					13
Smuts, Periconia, Myxomycetes					710
Total					1,313

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

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

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

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MoldSTAT™: Supplementary Statistical Spore Trap Report

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MoldSCORE™: Spore Trap Report

Outdoor Sample: 20906001-TM551OUTCL

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	█				12	160
Cladosporium	█	█			14	750
Curvularia					ND	< 13
Epicoccum	█				1	13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†	█				4	210
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores‡‡	█				3	160
Basidiospores‡‡	█	█			8	430
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes‡‡	█	█			23	310
Total						2,033

Location: 20906001-TM552CL

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†	█				2	110
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores‡‡	█				1	53
Basidiospores‡‡					ND	< 13
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes‡‡	█				2	27
Total						203

MoldSCORE‡			Score
100	200	300	
█			100
█			100
█			100
█			100
█			100
█			100
█			100
█			105
█			114
█			100
█			100
█			115
█			100
█			100
█			100
Final MoldSCORE			114

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MoldSCORE™: Spore Trap Report

Location: 20906001-TM553CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria	█				1	13	█			105
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium	█				3	160	█			105
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Other brown	█				1	13	█			105
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††					ND	< 13	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††	█				2	27	█			100
Total						213	Final MoldSCORE 110			

Location: 20906001-TM554CL

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

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MoldSCORE™: Spore Trap Report

Location: 20906001-TM555CL

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				109
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						110				Final MoldSCORE 109

Location: 20906001-TM556CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					1	53				106
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					1	53				102
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					1	13				100
Total						172				Final MoldSCORE 106

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MoldSCORE™: Spore Trap Report

Location: 20906001-TM557CL

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				100
Curvularia	█				1	13				105
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula	█				1	13				105
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††	█				2	110				105
Rusts					1	13				105
Smuts, Periconia, Myxomycetes††	█				3	40				100
Total						299				Final MoldSCORE 110

Location: 20906001-TM558CL

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				109
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						110				Final MoldSCORE 109

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MoldSCORE™: Spore Trap Report

Location: 20906001-TM559CL

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	■	■			7	370	100			
Curvularia					ND	< 13	100			
Nigrospora					ND	< 13	100			
Penicillium/Aspergillus types†	■				2	110	100			
Stachybotrys					ND	< 13	100			
Torula					ND	< 13	100			
Seldom found growing indoors**										
Ascospores††					ND	< 13	100			
Basidiospores††	■				2	110	100			
Rusts	■				1	13	105			
Smuts, Periconia, Myxomycetes††	■	■	■	■	53	710	195			
Total						1,313	Final MoldSCORE 195			

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

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

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

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

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

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MoldSCORE™: Spore Trap Report

Location: 20906001-TM553CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria	█				1	13	█			104
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium	█				3	160	█			105
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Other brown	█				1	13	█			105
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††					ND	< 13	█			100
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††	█				2	27	█			104
Total						213	Final MoldSCORE 113			

Location: 20906001-TM554CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	█			100
Bipolaris/Drechslera group					ND	< 13	█			100
Chaetomium					ND	< 13	█			100
Cladosporium	█				1	53	█			100
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††	█				2	110	█			105
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						163	Final MoldSCORE 105			

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MoldSCORE™: Spore Trap Report

Location: 20906001-TM555CL

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				107
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						110				Final MoldSCORE 107

Location: 20906001-TM556CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					1	53				107
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					1	53				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					1	13				101
Total						172				Final MoldSCORE 107

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-26-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

MoldSCORE™: Spore Trap Report

Location: 20906001-TM557CL

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				100
Curvularia	█				1	13				105
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula	█				1	13				105
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††	█				2	110				100
Rusts					1	13				105
Smuts, Periconia, Myxomycetes††	█				3	40				106
Total						299				Final MoldSCORE 116

Location: 20906001-TM558CL

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				107
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						110				Final MoldSCORE 107

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-26-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

MoldSCORE™: Spore Trap Report

Location: 20906001-TM559CL

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	█	█			7	370	100			
Curvularia					ND	< 13	100			
Nigrospora					ND	< 13	100			
Penicillium/Aspergillus types†	█				2	110	103			
Stachybotrys					ND	< 13	100			
Torula					ND	< 13	100			
Seldom found growing indoors**										
Ascospores††					ND	< 13	100			
Basidiospores††	█				2	110	100			
Rusts					1	13	105			
Smuts, Periconia, Myxomycetes††	█	█	█	█	53	710	219			
Total						1,313	Final MoldSCORE 219			

*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.

HYGIENE TECHNOLOGIES INTERNATIONAL

3625 DEL AMO BOULEVARD, SUITE 180, TORRANCE, CA 90503 • (310) 370-8370 • FAX (310) 370-2474

555679

Request For Analysis

Project Number/Purchase Order: 20906001 Date Submitted: 6/29/09
Project Contact: Wes Frey/ Chun Lau Turnaround Required: 8Hours Rush
Lab Destination: EMLAB Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
20906001-TM551OUTCL	75L	Air-O-Cell	Total Mold Assessment
20906001-TM552CL	75L	Air-O-Cell	Total Mold Assessment
20906001-TM553CL	75L	Air-O-Cell	Total Mold Assessment
20906001-TM554CL	75L	Air-O-Cell	Total Mold Assessment
20906001-TM555CL	75L	Air-O-Cell	Total Mold Assessment
20906001-TM556CL	75L	Air-O-Cell	Total Mold Assessment
20906001-TM557CL	75L	Air-O-Cell	Total Mold Assessment
20906001-TM558CL	75L	Air-O-Cell	Total Mold Assessment
20906001-TM559CL	75L	Air-O-Cell	Total Mold Assessment
20906001-TM560OUTCL	75L	Air-O-Cell	Total Mold Assessment

Special Instructions: _____

1. Sampled by: [Signature] ^{6/26/09} _{2:00} Received by: _____
2. Relinquished by: [Signature] ^{6/28/09} _{2:00} Received by: [Signature] ^{6/29/09} _{9:15AM}
3. Relinquished by: _____ Received by: _____

Please include signature, date, and time

Lab Use Only:

EMLab P&K

Report for:

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

Regarding: Project: 20906001
 EML ID: 555686

Approved by:



Lab Manager
Malcolm Moody

Dates of Analysis:
Spore trap analysis: 06-29-2009

Project SOPs: Spore trap analysis (I100000)

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

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

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

Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20906001

Date of Receipt: 06-29-2009
Date of Report: 06-29-2009

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20906001-TM8001LS		20906001-TM8002LS		20906001-TM8003LS		20906001-TM8004LS	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	2466104-1		2466105-1		2466106-1		2466108-1	
	raw ct.	spores/m3						
Alternaria								
Arthrinium								
Ascospores*	2	110					1	53
Aureobasidium								
Basidiospores*			1	53	2	110	4	210
Bipolaris/Drechslera group								
Botrytis	1	13						
Chaetomium								
Cladosporium	3	160	4	210	2	110	1	53
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora	1	13						
Oidium							1	13
Other colorless								
Penicillium/Aspergillus types†					2	110	1	53
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*	2	27	1	13	13	170	11	150
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		3+		2+		3+	
Hyphal fragments/m3	< 13		27		< 13		40	
Pollen/m3	13		13		27		13	
Skin cells (1-4+)	1+		2+		1+		2+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORE/m3		320		280		490		530

Comments:

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

EMLab P&K

Report for:

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

Regarding: Project: 20906001
EML ID: 555677

Approved by:



Lab Manager
Malcolm Moody

Dates of Analysis:
Spore trap analysis: 06-29-2009

Project SOPs: Spore trap analysis (I100000)

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

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

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

Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-27-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20906001-TM561OUTCL		20906001-TM562CL		20906001-TM563CL		20906001-TM564CL		20906001-TM565CL	
Comments (see below)	None		None		None		None		None	
Lab ID-Version‡:	2466095-1		2466096-1		2466097-1		2466098-1		2466099-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	4	53								
Arthrinium										
Ascospores*	10	530	1	53	2	110				
Aureobasidium										
Basidiospores*	49	2,600	3	160			8	430	3	160
Bipolaris/Drechslera group										
Botrytis										
Chaetomium	4	53								
Cladosporium	37	2,000	1	53	1	53	10	530	3	160
Curvularia										
Epicoccum										
Fusarium										
Myrothecium										
Nigrospora										
Oidium	4	53								
Other colorless										
Penicillium/Aspergillus types†	9	480			1	53	33	1,800	1	53
Pithomyces										
Rusts*	1	13								
Smuts*, Periconia, Myxomycetes*	42	560	2	27	1	13	2	27		
Stachybotrys										
Stemphylium	1	13								
Torula										
Ulocladium										
Zygomycetes										
Background debris (1-4+)††	2+		1+		1+		2+		1+	
Hyphal fragments/m3	330		13		< 13		80		27	
Pollen/m3	160		< 13		< 13		67		< 13	
Skin cells (1-4+)	< 1+		1+		< 1+		1+		1+	
Sample volume (liters)	75		75		75		75		75	
§ TOTAL SPORE/m3		6,300		290		230		2,700		370

Comments:

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

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20906001

Date of Sampling: 06-27-2009
Date of Receipt: 06-29-2009
Date of Report: 06-29-2009

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20906001-TM566CL		20906001-TM567CL		20906001-TM568CL		20906001-TM569OUTCL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	2466100-1		2466101-1		2466102-1		2466103-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria							2	27
Arthrinium								
Ascospores*	1	53			1	53	7	370
Aureobasidium								
Basidiospores*	5	270	2	110	5	270	30	1,600
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	5	270	2	110	2	110	25	1,300
Curvularia								
Epicoccum			1	13				
Fusarium								
Myrothecium								
Nigrospora							1	13
Oidium							1	13
Other colorless								
Penicillium/Aspergillus types†	8	430					11	590
Pithomyces								
Rusts*	1	13					3	40
Smuts*, Periconia, Myxomycetes*	6	80			1	13	20	270
Stachybotrys								
Stemphylium								
Torula					1	13		
Ulocladium	1	13						
Zygomycetes								
Background debris (1-4+)††	2+		1+		2+		2+	
Hyphal fragments/m3	67		40		40		250	
Pollen/m3	< 13		13		< 13		190	
Skin cells (1-4+)	1+		1+		1+		< 1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORE/m3		1,100		230		450		4,300

Comments:

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

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

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

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

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

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.
TestAmerica Environmental Microbiology Laboratory, Inc.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20906001

Date of Sampling: 06-27-2009
Date of Receipt: 06-29-2009
Date of Report: 06-29-2009

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 20906001-TM561OUTCL

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: June				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	53	7	40	380	65	7	27	220	57
Bipolaris/Drechslera group	-	7	13	180	18	7	13	120	13
Chaetomium	53	7	13	120	15	7	13	120	19
Cladosporium	2,000	53	650	8,600	97	53	630	6,700	97
Curvularia	-	7	13	460	13	7	13	230	7
Nigrospora	-	7	13	160	10	7	13	170	8
Penicillium/Aspergillus types	480	27	190	2,100	79	33	210	2,500	86
Stachybotrys	-	7	13	350	3	7	13	290	5
Stemphylium	13	7	13	67	7	7	13	67	9
Torula	-	7	13	160	16	7	13	150	12
Seldom found growing indoors**									
Ascospores	530	13	190	7,200	82	13	110	1,900	71
Basidiospores	2,600	13	270	15,000	93	13	210	7,000	93
Oidium	53	7	13	210	23	7	13	190	20
Rusts	13	7	13	210	27	7	13	250	28
Smuts, Periconia, Myxomycetes	560	10	58	1,300	81	8	40	490	70
TOTAL SPORES/M3	6,355								

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

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

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

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

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

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20906001

Date of Sampling: 06-27-2009
Date of Receipt: 06-29-2009
Date of Report: 06-29-2009

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 20906001-TM569OUTCL

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: June				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	27	7	40	380	65	7	27	220	57
Bipolaris/Drechslera group	-	7	13	180	18	7	13	120	13
Chaetomium	-	7	13	120	15	7	13	120	19
Cladosporium	1,300	53	650	8,600	97	53	630	6,700	97
Curvularia	-	7	13	460	13	7	13	230	7
Nigrospora	13	7	13	160	10	7	13	170	8
Penicillium/Aspergillus types	590	27	190	2,100	79	33	210	2,500	86
Stachybotrys	-	7	13	350	3	7	13	290	5
Stemphylium	-	7	13	67	7	7	13	67	9
Torula	-	7	13	160	16	7	13	150	12
Seldom found growing indoors**									
Ascospores	370	13	190	7,200	82	13	110	1,900	71
Basidiospores	1,600	13	270	15,000	93	13	210	7,000	93
Oidium	13	7	13	210	23	7	13	190	20
Rusts	40	7	13	210	27	7	13	250	28
Smuts, Periconia, Myxomycetes	270	10	58	1,300	81	8	40	490	70
TOTAL SPORES/M3	4,223								

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

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

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

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

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Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-27-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 20906001-TM561OUTCL:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				53	7 - 27 - 400	52
Ascospores				530	13 - 160 - 4,500	76
Basidiospores				2,600	13 - 310 - 15,000	91
Chaetomium				53	7 - 13 - 130	12
Cladosporium				2,000	27 - 510 - 8,900	93
Oidium				53	7 - 13 - 220	15
Penicillium/Aspergillus types				480	27 - 210 - 2,500	80
Rusts				13	7 - 15 - 310	22
Smuts, Periconia, Myxomycetes				560	7 - 40 - 830	69
Stemphylium				13	7 - 13 - 67	5
Total				6,355		

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: 20906001-TM562CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 4%	dF: 6 Result: 9.0595 Critical value: 12.5916 Inside Similar: Yes	Result: 0.5714	dF: 10 Result: 0.8879 Critical value: 0.5515 Outside Similar: Yes	Score: 104 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Ascospores				53
	Basidiospores				160
	Cladosporium				53
	Smuts, Periconia, Myxomycetes				27
	Total				293

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-27-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20906001-TM563CL

% 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: 6 Result: 9.0595 Critical value: 12.5916 Inside Similar: Yes	Result: 0.5714	dF: 10 Result: 0.5909 Critical value: 0.5515 Outside Similar: Yes	Score: 106 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					110
Cladosporium					53
Penicillium/Aspergillus types					53
Smuts, Periconia, Myxomycetes					13
Total					229

Location: 20906001-TM564CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 43%	dF: 6 Result: 9.0595 Critical value: 12.5916 Inside Similar: Yes	Result: 0.5714	dF: 10 Result: 0.7455 Critical value: 0.5515 Outside Similar: Yes	Score: 278 Result: High	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					430
Cladosporium					530
Penicillium/Aspergillus types					1,800
Smuts, Periconia, Myxomycetes					27
Total					2,787

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-27-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20906001-TM565CL

% 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: 6 Result: 9.0595 Critical value: 12.5916 Inside Similar: Yes	Result: 0.4615	dF: 10 Result: 0.7455 Critical value: 0.5515 Outside Similar: Yes	Score: 104 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					160
Cladosporium					160
Penicillium/Aspergillus types					53
Total					373

Location: 20906001-TM566CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 17%	dF: 6 Result: 9.0595 Critical value: 12.5916 Inside Similar: Yes	Result: 0.7059	dF: 11 Result: 0.6886 Critical value: 0.5273 Outside Similar: Yes	Score: 154 Result: Medium	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					53
Basidiospores					270
Cladosporium					270
Penicillium/Aspergillus types					430
Rusts					13
Smuts, Periconia, Myxomycetes					80
Ulocladium					13
Total					1,129

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-27-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20906001-TM567CL

% 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: 6 Result: 9.0595 Critical value: 12.5916 Inside Similar: Yes	Result: 0.3077	dF: 11 Result: 0.4909 Critical value: 0.5273 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					110
Cladosporium					110
Epicoccum					13
Total					233

Location: 20906001-TM568CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 7%	dF: 6 Result: 9.0595 Critical value: 12.5916 Inside Similar: Yes	Result: 0.5333	dF: 11 Result: 0.6977 Critical value: 0.5273 Outside Similar: Yes	Score: 109 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					53
Basidiospores					270
Cladosporium					110
Smuts, Periconia, Myxomycetes					13
Torula					13
Total					459

* 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.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
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Date of Sampling: 06-27-2009
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Date of Report: 06-29-2009

MoldSTAT™: Supplementary Statistical Spore Trap Report

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

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 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-27-2009
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MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 20906001-TM569OUTCL:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				27	7 - 27 - 400	52
Ascospores				370	13 - 160 - 4,500	76
Basidiospores				1,600	13 - 310 - 15,000	91
Cladosporium				1,300	27 - 510 - 8,900	93
Nigrospora				13	7 - 13 - 210	15
Oidium				13	7 - 13 - 220	15
Penicillium/Aspergillus types				590	27 - 210 - 2,500	80
Rusts				40	7 - 15 - 310	22
Smuts, Periconia, Myxomycetes				270	7 - 40 - 830	69
Total				4,223		

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: 20906001-TM562CL

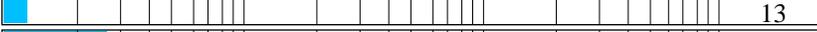
% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 6%	dF: 6 Result: 9.0595 Critical value: 12.5916 Inside Similar: Yes	Result: 0.6154	dF: 9 Result: 0.7917 Critical value: 0.5833 Outside Similar: Yes	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Ascospores				53
	Basidiospores				160
	Cladosporium				53
	Smuts, Periconia, Myxomycetes				27
	Total				293

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 Northern California
 C/O: Mr. Wes Frey
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Date of Sampling: 06-27-2009
 Date of Receipt: 06-29-2009
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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20906001-TM563CL

% 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: 6 Result: 9.0595 Critical value: 12.5916 Inside Similar: Yes	Result: 0.6154	dF: 9 Result: 0.5667 Critical value: 0.5833 Outside Similar: No	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					110
Cladosporium					53
Penicillium/Aspergillus types					53
Smuts, Periconia, Myxomycetes					13
Total					229

Location: 20906001-TM564CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 65%	dF: 6 Result: 9.0595 Critical value: 12.5916 Inside Similar: Yes	Result: 0.6154	dF: 9 Result: 0.8042 Critical value: 0.5833 Outside Similar: Yes	Score: 268 Result: High	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					430
Cladosporium					530
Penicillium/Aspergillus types					1,800
Smuts, Periconia, Myxomycetes					27
Total					2,787

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20906001-TM565CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 8%	dF: 6 Result: 9.0595 Critical value: 12.5916 Inside Similar: Yes	Result: 0.5000	dF: 9 Result: 0.8542 Critical value: 0.5833 Outside Similar: Yes	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					160
Cladosporium					160
Penicillium/Aspergillus types					53
Total					373

Location: 20906001-TM566CL

% 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: 6 Result: 9.0595 Critical value: 12.5916 Inside Similar: Yes	Result: 0.7500	dF: 10 Result: 0.8455 Critical value: 0.5515 Outside Similar: Yes	Score: 143 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					53
Basidiospores					270
Cladosporium					270
Penicillium/Aspergillus types					430
Rusts					13
Smuts, Periconia, Myxomycetes					80
Ulocladium					13
Total					1,129

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20906001-TM567CL

% 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: 6 Result: 9.0595 Critical value: 12.5916 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: 0.4909 Critical value: 0.5515 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					110
Cladosporium					110
Epicoccum					13
Total					233

Location: 20906001-TM568CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 10%	dF: 6 Result: 9.0595 Critical value: 12.5916 Inside Similar: Yes	Result: 0.5714	dF: 10 Result: 0.6242 Critical value: 0.5515 Outside Similar: Yes	Score: 110 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					53
Basidiospores					270
Cladosporium					110
Smuts, Periconia, Myxomycetes					13
Torula					13
Total					459

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

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

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

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MoldSTAT™: Supplementary Statistical Spore Trap Report

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

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Date of Sampling: 06-27-2009
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MoldSCORE™: Spore Trap Report

Outdoor Sample: 20906001-TM561OUTCL

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					4	53
Bipolaris/Drechslera group					ND	< 13
Chaetomium					4	53
Cladosporium					37	2,000
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					9	480
Stachybotrys					ND	< 13
Stemphylium					1	13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores††					10	530
Basidiospores††					49	2,600
Oidium					4	53
Rusts					1	13
Smuts, Periconia, Myxomycetes††					42	560
Total						6,355

Location: 20906001-TM562CL

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					1	53
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					ND	< 13
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores††					1	53
Basidiospores††					3	160
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes††					2	27
Total						293

MoldSCORE‡			
100	200	300	Score
			100
			100
			100
			100
			100
			100
			100
			100
			100
			112
			104
			100
			100
Final MoldSCORE			104

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

Location: 20906001-TM563CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	100			
Bipolaris/Drechslera group					ND	< 13	100			
Chaetomium					ND	< 13	100			
Cladosporium	█				1	53	100			
Curvularia					ND	< 13	100			
Nigrospora					ND	< 13	100			
Penicillium/Aspergillus types†	█				1	53	106			
Stachybotrys					ND	< 13	100			
Torula					ND	< 13	100			
Seldom found growing indoors**										
Ascospores‡‡	█				2	110	136			
Basidiospores‡‡					ND	< 13	100			
Rusts					ND	< 13	100			
Smuts, Periconia, Myxomycetes‡‡	█				1	13	100			
Total						229	Final MoldSCORE 106			

Location: 20906001-TM564CL

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	█	█	█		10	530	100			
Curvularia					ND	< 13	100			
Nigrospora					ND	< 13	100			
Penicillium/Aspergillus types†	█	█	█		33	1,800	278			
Stachybotrys					ND	< 13	100			
Torula					ND	< 13	100			
Seldom found growing indoors**										
Ascospores‡‡					ND	< 13	100			
Basidiospores‡‡	█	█	█		8	430	100			
Rusts					ND	< 13	100			
Smuts, Periconia, Myxomycetes‡‡	█				2	27	100			
Total						2,787	Final MoldSCORE 278			

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 Date of Report: 06-29-2009

MoldSCORE™: Spore Trap Report

Location: 20906001-TM565CL

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	103			
Curvularia					ND	< 13	100			
Nigrospora					ND	< 13	100			
Penicillium/Aspergillus types†	█				1	53	104			
Stachybotrys					ND	< 13	100			
Torula					ND	< 13	100			
Seldom found growing indoors**										
Ascospores‡‡					ND	< 13	100			
Basidiospores‡‡	█				3	160	101			
Rusts					ND	< 13	100			
Smuts, Periconia, Myxomycetes‡‡					ND	< 13	100			
Total						373	Final MoldSCORE 104			

Location: 20906001-TM566CL

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	█	█			5	270	100			
Curvularia					ND	< 13	100			
Nigrospora					ND	< 13	100			
Penicillium/Aspergillus types†	█	█	█		8	430	154			
Stachybotrys					ND	< 13	100			
Torula					ND	< 13	100			
Ulocladium	█				1	13	105			
Seldom found growing indoors**										
Ascospores‡‡	█				1	53	100			
Basidiospores‡‡	█	█			5	270	100			
Rusts	█				1	13	104			
Smuts, Periconia, Myxomycetes‡‡	█				6	80	100			
Total						1,129	Final MoldSCORE 154			

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-27-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

MoldSCORE™: Spore Trap Report

Location: 20906001-TM567CL

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				102
Curvularia					ND	< 13				100
Epicoccum	█				1	13				105
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††	█				2	110				102
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						233				Final MoldSCORE 105

Location: 20906001-TM568CL

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				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula	█				1	13				105
Seldom found growing indoors**										
Ascospores††	█				1	53				106
Basidiospores††	█	█			5	270				109
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††	█				1	13				100
Total						459				Final MoldSCORE 109

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20906001

Date of Sampling: 06-27-2009
Date of Receipt: 06-29-2009
Date of Report: 06-29-2009

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. Wes Frey
 Re: 20906001

Date of Sampling: 06-27-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

MoldSCORE™: Spore Trap Report

Location: 20906001-TM563CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13	100			
Bipolaris/Drechslera group					ND	< 13	100			
Chaetomium					ND	< 13	100			
Cladosporium	█				1	53	100			
Curvularia					ND	< 13	100			
Nigrospora					ND	< 13	100			
Penicillium/Aspergillus types†	█				1	53	103			
Stachybotrys					ND	< 13	100			
Torula					ND	< 13	100			
Seldom found growing indoors**										
Ascospores††	█				2	110	136			
Basidiospores††					ND	< 13	100			
Rusts					ND	< 13	100			
Smuts, Periconia, Myxomycetes††	█				1	13	100			
Total						229	Final MoldSCORE 103			

Location: 20906001-TM564CL

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	█	█			10	530	100			
Curvularia					ND	< 13	100			
Nigrospora					ND	< 13	100			
Penicillium/Aspergillus types†	█	█	█		33	1,800	268			
Stachybotrys					ND	< 13	100			
Torula					ND	< 13	100			
Seldom found growing indoors**										
Ascospores††					ND	< 13	100			
Basidiospores††	█	█	█		8	430	100			
Rusts					ND	< 13	100			
Smuts, Periconia, Myxomycetes††	█				2	27	100			
Total						2,787	Final MoldSCORE 268			

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-27-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

MoldSCORE™: Spore Trap Report

Location: 20906001-TM565CL

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	█			103
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†	█				1	53	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††	█				3	160	█			102
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						373				Final MoldSCORE 103

Location: 20906001-TM566CL

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	█	█			5	270	█			100
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†	█	█	█		8	430	█	█		143
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Ulocladium	█				1	13	█			105
Seldom found growing indoors**										
Ascospores††	█				1	53	█			100
Basidiospores††	█	█			5	270	█			100
Rusts	█				1	13	█			101
Smuts, Periconia, Myxomycetes††	█				6	80	█			102
Total						1,129				Final MoldSCORE 143

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-27-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

MoldSCORE™: Spore Trap Report

Location: 20906001-TM567CL

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	█			102
Curvularia					ND	< 13	█			100
Epicoccum	█				1	13	█			105
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula					ND	< 13	█			100
Seldom found growing indoors**										
Ascospores††					ND	< 13	█			100
Basidiospores††	█				2	110	█			102
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††					ND	< 13	█			100
Total						233	Final MoldSCORE 105			

Location: 20906001-TM568CL

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	█			100
Curvularia					ND	< 13	█			100
Nigrospora					ND	< 13	█			100
Penicillium/Aspergillus types†					ND	< 13	█			100
Stachybotrys					ND	< 13	█			100
Torula	█				1	13	█			105
Seldom found growing indoors**										
Ascospores††	█				1	53	█			105
Basidiospores††	█	█			5	270	█			110
Rusts					ND	< 13	█			100
Smuts, Periconia, Myxomycetes††	█				1	13	█			100
Total						459	Final MoldSCORE 110			

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20906001

Date of Sampling: 06-27-2009
Date of Receipt: 06-29-2009
Date of Report: 06-29-2009

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.

HYGIENE TECHNOLOGIES INTERNATIONAL

3625 DEL AMO BOULEVARD, SUITE 180, TORRANCE, CA 90503 • (310) 370-8370 • FAX (310) 370-2474

555677

Request For Analysis

Project Number/Purchase Order: 20906001 Date Submitted: 6/29/09
Project Contact: Wes Frey/ Chun Lau Turnaround Required: 8Hours Rush
Lab Destination: EMLAB Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
20906001-TM561OUTCL	75L	Air-O-Cell	Total Mold Assessment
20906001-TM562CL	75L	Air-O-Cell	Total Mold Assessment
20906001-TM563CL	75L	Air-O-Cell	Total Mold Assessment
20906001-TM564CL	75L	Air-O-Cell	Total Mold Assessment
20906001-TM565CL	75L	Air-O-Cell	Total Mold Assessment
20906001-TM566CL	75L	Air-O-Cell	Total Mold Assessment
20906001-TM567CL	75L	Air-O-Cell	Total Mold Assessment
20906001-TM568CL	75L	Air-O-Cell	Total Mold Assessment
20906001-TM569OUTCL	75L	Air-O-Cell	Total Mold Assessment

Special Instructions: _____

1. Sampled by: C. Lau ^{6/27/09} Received by: _____
2. Relinquished by: C. Lau ^{6/29/09} Received by: [Signature] ^{6/29/09 9:15AM}
3. Relinquished by: _____ Received by: _____
Please include signature, date, and time

Lab Use Only: _____

EMLab P&K

Report for:

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

Regarding: Project: 20906001
 EML ID: 555688

Approved by:



Lab Manager
Malcolm Moody

Dates of Analysis:
Spore trap analysis: 06-29-2009

Project SOPs: Spore trap analysis (I100000)

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

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

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

Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20906001-TM8005LS	
Comments (see below)	None	
Lab ID-Version‡:	2466158-1	
	raw ct.	spores/m3
Alternaria		
Arthrinium		
Ascospores*		
Aureobasidium		
Basidiospores*	1	53
Bipolaris/Drechslera group		
Botrytis		
Chaetomium		
Cladosporium		
Curvularia		
Epicoccum		
Fusarium		
Myrothecium		
Nigrospora		
Other colorless		
Penicillium/Aspergillus types†	1	53
Pithomyces		
Rusts*		
Smuts*, Periconia, Myxomycetes*	1	13
Stachybotrys		
Stemphylium		
Torula		
Ulocladium		
Zygomycetes		
Background debris (1-4+)††	2+	
Hyphal fragments/m3	40	
Pollen/m3	13	
Skin cells (1-4+)	1+	
Sample volume (liters)	75	
§ TOTAL SPORE/m3		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" greater than 1 indicates amended data.
 § Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.
 TestAmerica Environmental Microbiology Laboratory, Inc.

EMLab P&K

Report for:

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

Regarding: Project: 20906001
EML ID: 555675

Approved by:



Lab Manager
Malcolm Moody

Dates of Analysis:
Spore trap analysis: 06-29-2009

Project SOPs: Spore trap analysis (I100000)

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

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

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

Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20906001

Date of Sampling: 06-28-2009
Date of Receipt: 06-29-2009
Date of Report: 06-29-2009

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20906001-TM570OUTCL		20906001-TM571CL		20906001-TM572CL		20906001-TM573CL		20906001-TM574CL	
Comments (see below)	None		None		None		None		None	
Lab ID-Version‡:	2466076-1		2466077-1		2466078-1		2466079-1		2466080-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	2	27			1	13				
Arthrinium										
Ascospores*	4	210							1	53
Aureobasidium										
Basidiospores*	71	3,800	11	590	3	160			17	910
Bipolaris/Drechslera group			1	13						
Botrytis										
Chaetomium	2	27								
Cladosporium	23	1,200	6	320	1	53	1	53	5	270
Curvularia										
Epicoccum										
Fusarium										
Myrothecium										
Nigrospora										
Oidium	4	53								
Other brown					3	40				
Penicillium/Aspergillus types†	1	53			1	53				
Pithomyces										
Rusts*					1	13				
Smuts*, Periconia, Myxomycetes*	21	280	1	13	7	93			3	40
Stachybotrys			1	13						
Stemphylium										
Torula							1	13		
Ulocladium										
Background debris (1-4+)††	2+		3+		3+		1+		3+	
Hyphal fragments/m3	27		40		27		< 13		27	
Pollen/m3	67		53		13		< 13		13	
Skin cells (1-4+)	None		1+		1+		< 1+		1+	
Sample volume (liters)	75		75		75		75		75	
§ TOTAL SPORE/m3		5,700		950		430		67		1,300

Comments:

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

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

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

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

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

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.
TestAmerica Environmental Microbiology Laboratory, Inc.

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-28-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20906001-TM575CL		20906001-TM576CL		20906001-TM577CL		20906001-TM578CL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	2466081-1		2466082-1		2466083-1		2466084-1	
	raw ct.	spores/m3						
Alternaria								
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*	1	53			4	210	1	53
Bipolaris/Drechslera group							1	13
Botrytis								
Chaetomium								
Cladosporium	1	53	3	160	1	53	1	53
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Oidium								
Other brown			1	13				
Penicillium/Aspergillus types†								
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*					2	27	2	27
Stachybotrys							1	13
Stemphylium								
Torula								
Ulocladium								
Background debris (1-4+)††	2+		2+		1+		2+	
Hyphal fragments/m3	< 13		< 13		27		< 13	
Pollen/m3	13		< 13		< 13		13	
Skin cells (1-4+)	< 1+		1+		< 1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORE/m3		110		170		290		160

Comments:

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-28-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20906001-TM579CL		20906001-TM580CL		20906001-TM581CL		20906001-TM582OUTCL	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	2466085-1		2466086-1		2466087-1		2466088-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria							1	13
Arthrinium								
Ascospores*	2	110					2	110
Aureobasidium								
Basidiospores*	1	53			6	320	20	1,100
Bipolaris/Drechslera group								
Botrytis								
Chaetomium							1	13
Cladosporium	1	53	1	53	3	160	20	1,100
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Oidium							1	13
Other brown							1	13
Penicillium/Aspergillus types†							2	110
Pithomyces	1	13						
Rusts*					1	13	3	40
Smuts*, Periconia, Myxomycetes*	1	13	1	13	1	13	8	110
Stachybotrys								
Stemphylium								
Torula								
Ulocladium			1	13				
Background debris (1-4+)††	3+		3+		3+		2+	
Hyphal fragments/m3	27		27		< 13		93	
Pollen/m3	13		< 13		53		130	
Skin cells (1-4+)	1+		1+		1+		None	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORE/m3		240		80		510		2,500

Comments:

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

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20906001

Date of Sampling: 06-28-2009
Date of Receipt: 06-29-2009
Date of Report: 06-29-2009

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 20906001-TM570OUTCL

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: June				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	27	7	40	380	65	7	27	220	57
Bipolaris/Drechslera group	-	7	13	180	18	7	13	120	13
Chaetomium	27	7	13	120	15	7	13	120	19
Cladosporium	1,200	53	650	8,600	97	53	630	6,700	97
Curvularia	-	7	13	460	13	7	13	230	7
Nigrospora	-	7	13	160	10	7	13	170	8
Other brown	-	7	13	93	34	7	13	80	36
Penicillium/Aspergillus types	53	27	190	2,100	79	33	210	2,500	86
Stachybotrys	-	7	13	350	3	7	13	290	5
Torula	-	7	13	160	16	7	13	150	12
Seldom found growing indoors**									
Ascospores	210	13	190	7,200	82	13	110	1,900	71
Basidiospores	3,800	13	270	15,000	93	13	210	7,000	93
Oidium	53	7	13	210	23	7	13	190	20
Rusts	-	7	13	210	27	7	13	250	28
Smuts, Periconia, Myxomycetes	280	10	58	1,300	81	8	40	490	70
TOTAL SPORES/M3	5,650								

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

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

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

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

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

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20906001

Date of Sampling: 06-28-2009
Date of Receipt: 06-29-2009
Date of Report: 06-29-2009

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 20906001-TM582OUTCL

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: June				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	13	7	40	380	65	7	27	220	57
Bipolaris/Drechslera group	-	7	13	180	18	7	13	120	13
Chaetomium	13	7	13	120	15	7	13	120	19
Cladosporium	1,100	53	650	8,600	97	53	630	6,700	97
Curvularia	-	7	13	460	13	7	13	230	7
Nigrospora	-	7	13	160	10	7	13	170	8
Other brown	13	7	13	93	34	7	13	80	36
Penicillium/Aspergillus types	110	27	190	2,100	79	33	210	2,500	86
Stachybotrys	-	7	13	350	3	7	13	290	5
Torula	-	7	13	160	16	7	13	150	12
Seldom found growing indoors**									
Ascospores	110	13	190	7,200	82	13	110	1,900	71
Basidiospores	1,100	13	270	15,000	93	13	210	7,000	93
Oidium	13	7	13	210	23	7	13	190	20
Rusts	40	7	13	210	27	7	13	250	28
Smuts, Periconia, Myxomycetes	110	10	58	1,300	81	8	40	490	70
TOTAL SPORES/M3	2,622								

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

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

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

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

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Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-28-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 20906001-TM570OUTCL:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				27	7 - 27 - 400	52
Ascospores				210	13 - 160 - 4,500	76
Basidiospores				3,800	13 - 310 - 15,000	91
Chaetomium				27	7 - 13 - 130	12
Cladosporium				1,200	27 - 510 - 8,900	93
Oidium				53	7 - 13 - 220	15
Penicillium/Aspergillus types				53	27 - 210 - 2,500	80
Smuts, Periconia, Myxomycetes				280	7 - 40 - 830	69
Total				5,650		

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: 20906001-TM571CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 16%	dF: 10 Result: 8.0350 Critical value: 18.3070 Inside Similar: Yes	Result: 0.4615	dF: 10 Result: 0.4515 Critical value: 0.5515 Outside Similar: No	Score: 121 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Basidiospores				590
	Bipolaris/Drechslera group				13
	Cladosporium				320
	Smuts, Periconia, Myxomycetes				13
	Stachybotrys				13
	Total				949

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-28-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20906001-TM572CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 7%	dF: 10 Result: 8.0350 Critical value: 18.3070 Inside Similar: Yes	Result: 0.6667	dF: 10 Result: 0.5333 Critical value: 0.5515 Outside Similar: No	Score: 133 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Basidiospores					160
Cladosporium					53
Other brown					40
Penicillium/Aspergillus types					53
Rusts					13
Smuts, Periconia, Myxomycetes					93
Total					425

Location: 20906001-TM573CL

% 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: 10 Result: 8.0350 Critical value: 18.3070 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.2250 Critical value: 0.5833 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Torula					13
Total					66

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-28-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20906001-TM574CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 22%	dF: 10 Result: 8.0350 Critical value: 18.3070 Inside Similar: Yes	Result: 0.6667	dF: 8 Result: 0.9286 Critical value: 0.6190 Outside Similar: Yes	Score: 106 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					53
Basidiospores					910
Cladosporium					270
Smuts, Periconia, Myxomycetes					40
Total					1,273

Location: 20906001-TM575CL

% 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: 10 Result: 8.0350 Critical value: 18.3070 Inside Similar: Yes	Result: 0.4000	dF: 8 Result: 0.7976 Critical value: 0.6190 Outside Similar: Yes	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					53
Total					106

Location: 20906001-TM576CL

% 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: 10 Result: 8.0350 Critical value: 18.3070 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.2250 Critical value: 0.5833 Outside Similar: No	Score: 108 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					160
Other brown					13
Total					173

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-28-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20906001-TM577CL

% 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: 10 Result: 8.0350 Critical value: 18.3070 Inside Similar: Yes	Result: 0.5455	dF: 8 Result: 0.8929 Critical value: 0.6190 Outside Similar: Yes	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					210
Cladosporium					53
Smuts, Periconia, Myxomycetes					27
Total					290

Location: 20906001-TM578CL

% 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: 10 Result: 8.0350 Critical value: 18.3070 Inside Similar: Yes	Result: 0.4615	dF: 10 Result: 0.5182 Critical value: 0.5515 Outside Similar: No	Score: 121 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Bipolaris/Drechslera group					13
Cladosporium					53
Smuts, Periconia, Myxomycetes					27
Stachybotrys					13
Total					159

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-28-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20906001-TM579CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 4%	dF: 10 Result: 8.0350 Critical value: 18.3070 Inside Similar: Yes	Result: 0.6154	dF: 9 Result: 0.6500 Critical value: 0.5833 Outside Similar: Yes	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					110
Basidiospores					53
Cladosporium					53
Pithomyces					13
Smuts, Periconia, Myxomycetes					13
Total					242

Location: 20906001-TM580CL

% 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: 10 Result: 8.0350 Critical value: 18.3070 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: 0.3000 Critical value: 0.5833 Outside Similar: No	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Smuts, Periconia, Myxomycetes					13
Ulocladium					13
Total					79

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-28-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20906001-TM581CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 8%	dF: 10 Result: 8.0350 Critical value: 18.3070 Inside Similar: Yes	Result: 0.5000	dF: 9 Result: 0.6292 Critical value: 0.5833 Outside Similar: Yes	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					320
Cladosporium					160
Rusts					13
Smuts, Periconia, Myxomycetes					13
Total					506

* 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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Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-28-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 20906001-TM582OUTCL:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				13	7 - 27 - 400	52
Ascospores				110	13 - 160 - 4,500	76
Basidiospores				1,100	13 - 310 - 15,000	91
Chaetomium				13	7 - 13 - 130	12
Cladosporium				1,100	27 - 510 - 8,900	93
Oidium				13	7 - 13 - 220	15
Other brown				13	7 - 13 - 100	32
Penicillium/Aspergillus types				110	27 - 210 - 2,500	80
Rusts				40	7 - 15 - 310	22
Smuts, Periconia, Myxomycetes				110	7 - 40 - 830	69
Total				2,622		

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: 20906001-TM571CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 36%	dF: 10 Result: 8.0350 Critical value: 18.3070 Inside Similar: Yes	Result: 0.4000	dF: 12 Result: 0.3951 Critical value: 0.4965 Outside Similar: No	Score: 121 Result: Low
Species Detected	Spores/m3			
	<100	1K	10K	>100K
Basidiospores				590
Bipolaris/Drechslera group				13
Cladosporium				320
Smuts, Periconia, Myxomycetes				13
Stachybotrys				13
Total				949

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-28-2009
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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20906001-TM572CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 16%	dF: 10 Result: 8.0350 Critical value: 18.3070 Inside Similar: Yes	Result: 0.8235	dF: 10 Result: 0.6939 Critical value: 0.5515 Outside Similar: Yes	Score: 133 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Alternaria					13
Basidiospores					160
Cladosporium					53
Other brown					40
Penicillium/Aspergillus types					53
Rusts					13
Smuts, Periconia, Myxomycetes					93
Total					425

Location: 20906001-TM573CL

% 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: 10 Result: 8.0350 Critical value: 18.3070 Inside Similar: Yes	Result: 0.1667	dF: 11 Result: 0.3250 Critical value: 0.5273 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Torula					13
Total					66

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Date of Sampling: 06-28-2009
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 Date of Report: 06-29-2009

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20906001-TM574CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 48%	dF: 10 Result: 8.0350 Critical value: 18.3070 Inside Similar: Yes	Result: 0.5714	dF: 10 Result: 0.8788 Critical value: 0.5515 Outside Similar: Yes	Score: 140 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					53
Basidiospores					910
Cladosporium					270
Smuts, Periconia, Myxomycetes					40
Total					1,273

Location: 20906001-TM575CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 4%	dF: 10 Result: 8.0350 Critical value: 18.3070 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: 0.7879 Critical value: 0.5515 Outside Similar: Yes	Score: 101 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					53
Total					106

Location: 20906001-TM576CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 6%	dF: 10 Result: 8.0350 Critical value: 18.3070 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: 0.4030 Critical value: 0.5515 Outside Similar: No	Score: 106 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					160
Other brown					13
Total					173

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20906001-TM577CL

% 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: 10 Result: 8.0350 Critical value: 18.3070 Inside Similar: Yes	Result: 0.4615	dF: 10 Result: 0.8212 Critical value: 0.5515 Outside Similar: Yes	Score: 109 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					210
Cladosporium					53
Smuts, Periconia, Myxomycetes					27
Total					290

Location: 20906001-TM578CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 6%	dF: 10 Result: 8.0350 Critical value: 18.3070 Inside Similar: Yes	Result: 0.4000	dF: 12 Result: 0.4441 Critical value: 0.4965 Outside Similar: No	Score: 121 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Bipolaris/Drechslera group					13
Cladosporium					53
Smuts, Periconia, Myxomycetes					27
Stachybotrys					13
Total					159

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 Northern California
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Date of Sampling: 06-28-2009
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 Date of Report: 06-29-2009

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20906001-TM579CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 9%	dF: 10 Result: 8.0350 Critical value: 18.3070 Inside Similar: Yes	Result: 0.5333	dF: 11 Result: 0.6364 Critical value: 0.5273 Outside Similar: Yes	Score: 106 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Ascospores					110
Basidiospores					53
Cladosporium					53
Pithomyces					13
Smuts, Periconia, Myxomycetes					13
Total					242

Location: 20906001-TM580CL

% 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: 10 Result: 8.0350 Critical value: 18.3070 Inside Similar: Yes	Result: 0.3077	dF: 11 Result: 0.3568 Critical value: 0.5273 Outside Similar: No	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Smuts, Periconia, Myxomycetes					13
Ulocladium					13
Total					79

Client: Hygiene Technologies International, Inc.:
 Northern California
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 Re: 20906001

Date of Sampling: 06-28-2009
 Date of Receipt: 06-29-2009
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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 20906001-TM581CL

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 19%	dF: 10 Result: 8.0350 Critical value: 18.3070 Inside Similar: Yes	Result: 0.5714	dF: 10 Result: 0.7848 Critical value: 0.5515 Outside Similar: Yes	Score: 111 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					320
Cladosporium					160
Rusts					13
Smuts, Periconia, Myxomycetes					13
Total					506

* 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: 20906001-TM572CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					1	13				
Bipolaris/Drechslera group					ND	< 13				
Chaetomium					ND	< 13				
Cladosporium					1	53				
Curvularia					ND	< 13				
Nigrospora					ND	< 13				
Other brown					3	40				
Penicillium/Aspergillus types†					1	53				
Stachybotrys					ND	< 13				
Torula					ND	< 13				
Seldom found growing indoors**										
Ascospores††					ND	< 13				
Basidiospores††					3	160				
Rusts					1	13				
Smuts, Periconia, Myxomycetes††					7	93				
Total						425	Final MoldSCORE 133			

Location: 20906001-TM573CL

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				
Bipolaris/Drechslera group					ND	< 13				
Chaetomium					ND	< 13				
Cladosporium					1	53				
Curvularia					ND	< 13				
Nigrospora					ND	< 13				
Penicillium/Aspergillus types†					ND	< 13				
Stachybotrys					ND	< 13				
Torula					1	13				
Seldom found growing indoors**										
Ascospores††					ND	< 13				
Basidiospores††					ND	< 13				
Rusts					ND	< 13				
Smuts, Periconia, Myxomycetes††					ND	< 13				
Total						66	Final MoldSCORE 105			

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MoldSCORE™: Spore Trap Report

Location: 20906001-TM574CL

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	█				5	270				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††	█				1	53				102
Basidiospores††	█	█			17	910				106
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††	█				3	40				100
Total						1,273	Final MoldSCORE 106			

Location: 20906001-TM575CL

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

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MoldSCORE™: Spore Trap Report

Location: 20906001-TM576CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium	█				3	160				108
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Other brown	█				1	13				105
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						173				Final MoldSCORE 108

Location: 20906001-TM577CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium	█				1	53				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††	█				4	210				102
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††	█				2	27				103
Total						290				Final MoldSCORE 103

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MoldSCORE™: Spore Trap Report

Location: 20906001-TM578CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group	█				1	13				105
Chaetomium					ND	< 13				100
Cladosporium	█				1	53				101
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys	█				1	13	█			121
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores‡‡					ND	< 13				100
Basidiospores‡‡	█				1	53				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes‡‡	█				2	27				104
Total						159				Final MoldSCORE 121

Location: 20906001-TM579CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium	█				1	53				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Pithomyces	█				1	13				105
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores‡‡	█				2	110	█	█		140
Basidiospores‡‡	█				1	53				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes‡‡	█				1	13				100
Total						242				Final MoldSCORE 105

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MoldSCORE™: Spore Trap Report

Location: 20906001-TM580CL

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
Ulocladium	█				1	13				105
Seldom found growing indoors**										
Ascospores‡‡					ND	< 13				100
Basidiospores‡‡					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes‡‡	█				1	13				102
Total						79				Final MoldSCORE 107

Location: 20906001-TM581CL

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				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‡‡	█	█			6	320				100
Rusts	█				1	13				105
Smuts, Periconia, Myxomycetes‡‡	█				1	13				100
Total						506				Final MoldSCORE 103

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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.

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MoldSCORE™: Spore Trap Report

Outdoor Sample: 20906001-TM582OUTCL

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria	█				1	13
Bipolaris/Drechslera group					ND	< 13
Chaetomium	█				1	13
Cladosporium	█	█	█	█	20	1,100
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††	█				2	110
Basidiospores††	█	█	█	█	20	1,100
Oidium	█				1	13
Rusts	█				3	40
Smuts, Periconia, Myxomycetes††	█				8	110
Total						2,622

Location: 20906001-TM571CL

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	█				1	13
Chaetomium					ND	< 13
Cladosporium	█	█			6	320
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					ND	< 13
Stachybotrys	█				1	13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores††					ND	< 13
Basidiospores††	█	█	█	█	11	590
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes††	█				1	13
Total						949

MoldSCORE‡			Score
100	200	300	
█			100
█			105
█			100
█			100
█			100
█			100
█			100
█	█		121
█			100
█			100
█			100
█	█		120
█			100
█			100
Final MoldSCORE			121

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-28-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

MoldSCORE™: Spore Trap Report

Location: 20906001-TM572CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					1	13				
Bipolaris/Drechslera group					ND	< 13				
Chaetomium					ND	< 13				
Cladosporium					1	53				
Curvularia					ND	< 13				
Nigrospora					ND	< 13				
Other brown					3	40				
Penicillium/Aspergillus types†					1	53				
Stachybotrys					ND	< 13				
Torula					ND	< 13				
Seldom found growing indoors**										
Ascospores††					ND	< 13				
Basidiospores††					3	160				
Rusts					1	13				
Smuts, Periconia, Myxomycetes††					7	93				
Total						425	Final MoldSCORE 133			

Location: 20906001-TM573CL

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				
Bipolaris/Drechslera group					ND	< 13				
Chaetomium					ND	< 13				
Cladosporium					1	53				
Curvularia					ND	< 13				
Nigrospora					ND	< 13				
Penicillium/Aspergillus types†					ND	< 13				
Stachybotrys					ND	< 13				
Torula					1	13				
Seldom found growing indoors**										
Ascospores††					ND	< 13				
Basidiospores††					ND	< 13				
Rusts					ND	< 13				
Smuts, Periconia, Myxomycetes††					ND	< 13				
Total						66	Final MoldSCORE 105			

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-28-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

MoldSCORE™: Spore Trap Report

Location: 20906001-TM574CL

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	■				5	270				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††	■				1	53				100
Basidiospores††	■	■			17	910				140
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††	■				3	40				100
Total						1,273				Final MoldSCORE 140

Location: 20906001-TM575CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium	■				1	53				101
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††	■				1	53				101
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						106				Final MoldSCORE 101

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-28-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

MoldSCORE™: Spore Trap Report

Location: 20906001-TM576CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium	█				3	160				106
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Other brown	█				1	13				105
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						173	Final MoldSCORE 106			

Location: 20906001-TM577CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium	█				1	53				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††	█				4	210				109
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††	█				2	27				103
Total						290	Final MoldSCORE 109			

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-28-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

MoldSCORE™: Spore Trap Report

Location: 20906001-TM578CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group	█				1	13				105
Chaetomium					ND	< 13				100
Cladosporium	█				1	53				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys	█				1	13	█			121
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores‡‡					ND	< 13				100
Basidiospores‡‡	█				1	53				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes‡‡	█				2	27				104
Total						159				Final MoldSCORE 121

Location: 20906001-TM579CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium	█				1	53				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Pithomyces	█				1	13				105
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores‡‡	█				2	110	█	█		139
Basidiospores‡‡	█				1	53				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes‡‡	█				1	13				101
Total						242				Final MoldSCORE 106

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-28-2009
 Date of Receipt: 06-29-2009
 Date of Report: 06-29-2009

MoldSCORE™: Spore Trap Report

Location: 20906001-TM580CL

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium	█				1	53				101
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Ulocladium	█				1	13				105
Seldom found growing indoors**										
Ascospores‡‡					ND	< 13				100
Basidiospores‡‡					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes‡‡	█				1	13				102
Total						79				Final MoldSCORE 107

Location: 20906001-TM581CL

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				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‡‡	█	█			6	320				111
Rusts	█				1	13				102
Smuts, Periconia, Myxomycetes‡‡	█				1	13				100
Total						506				Final MoldSCORE 111

Client: Hygiene Technologies International, Inc.:
Northern California
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Re: 20906001

Date of Sampling: 06-28-2009
Date of Receipt: 06-29-2009
Date of Report: 06-29-2009

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.

HYGIENE TECHNOLOGIES INTERNATIONAL

3625 DEL AMO BOULEVARD, SUITE 180, TORRANCE, CA 90503 • (310) 370-8370 • FAX (310) 370-2474

555675

Request For Analysis

Project Number/Purchase Order: 20906001 Date Submitted: 6/29/09

Project Contact: Wes Frey/ Chun Lau Turnaround Required: 8Hours Rush

Lab Destination: EMLAB Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
✓ 20906001-TM570OUTCL	75L	Air-O-Cell	Total Mold Assessment
20906001-TM571CL	75L	Air-O-Cell	Total Mold Assessment
20906001-TM572CL	75L	Air-O-Cell	Total Mold Assessment
20906001-TM573CL	75L	Air-O-Cell	Total Mold Assessment
20906001-TM574CL	75L	Air-O-Cell	Total Mold Assessment
20906001-TM575CL	75L	Air-O-Cell	Total Mold Assessment
20906001-TM576CL	75L	Air-O-Cell	Total Mold Assessment
20906001-TM577CL	75L	Air-O-Cell	Total Mold Assessment
20906001-TM578CL	75L	Air-O-Cell	Total Mold Assessment
✓ 20906001-TM579CL	75L	Air-O-Cell	Total Mold Assessment
✓ 20906001-TM580 CL	75L	Air-O-Cell	Total Mold Assessment
✓ 20906001-TM581CL	75L	↓	↓
✓ 20906001-TM582OUTCL	75L	↓	↓

Special Instructions: _____

1. Sampled by: [Signature] 6/28/09 Received by: [Signature] 6/29/09 9:15AM
2. Relinquished by: _____ Received by: _____
3. Relinquished by: _____ Received by: _____

Please include signature, date, and time

Lab Use Only:

EMLab P&K

Report for:

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

Regarding: Project: 20906001
 EML ID: 556054

Approved by:



Lab Manager
Malcolm Moody

Dates of Analysis:
Spore trap analysis: 06-30-2009

Project SOPs: Spore trap analysis (I100000)

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

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

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

Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-29-2009
 Date of Receipt: 06-30-2009
 Date of Report: 06-30-2009

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	20906001-TM9001OUTLS		20906001-TM9002LS	
Comments (see below)	A		None	
Lab ID-Version‡:	2467629-1		2467630-1	
	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	2	27		
Arthrinium				
Ascospores*	3	160		
Aureobasidium				
Basidiospores*	19	1,000	1	53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium	1	13		
Cladosporium	29	1,100		
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Other colorless				
Penicillium/Aspergillus types†	2	110	2	110
Pithomyces				
Rusts*	2	27		
Smuts*, Periconia, Myxomycetes*	36	480	2	27
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Background debris (1-4+)††	2+		2+	
Hyphal fragments/m3	170		13	
Pollen/m3	53		< 13	
Skin cells (1-4+)	< 1+		< 1+	
Sample volume (liters)	75		75	
§ TOTAL SPORE/m3		2,900		190

Comments: A) 12 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" greater than 1 indicates amended data.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.
 TestAmerica Environmental Microbiology Laboratory, Inc.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20906001

Date of Sampling: 06-29-2009
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Date of Report: 06-30-2009

MoldRANGE™: Extended Outdoor Comparison**Outdoor Location: 20906001-TM9001OUTLS**

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: June				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	27	7	40	380	65	7	27	220	57
Bipolaris/Drechslera group	-	7	13	180	18	7	13	120	13
Chaetomium	13	7	13	120	15	7	13	120	19
Cladosporium	1,100	53	650	8,600	97	53	630	6,700	97
Curvularia	-	7	13	460	13	7	13	230	7
Nigrospora	-	7	13	160	10	7	13	170	8
Penicillium/Aspergillus types	110	27	190	2,100	79	33	210	2,500	86
Stachybotrys	-	7	13	350	3	7	13	290	5
Torula	-	7	13	160	16	7	13	150	12
Seldom found growing indoors**									
Ascospores	160	13	190	7,200	82	13	110	1,900	71
Basidiospores	1,000	13	270	15,000	93	13	210	7,000	93
Rusts	27	7	13	210	27	7	13	250	28
Smuts, Periconia, Myxomycetes	480	10	58	1,300	81	8	40	490	70
TOTAL SPORES/M3	2,917								

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

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

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

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

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

Client: Hygiene Technologies International, Inc.:
 Northern California
 C/O: Mr. Wes Frey
 Re: 20906001

Date of Sampling: 06-29-2009
 Date of Receipt: 06-30-2009
 Date of Report: 06-30-2009

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 20906001-TM9001OUTLS:

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria					7 - 27 - 400	52
Ascospores					13 - 160 - 4,500	76
Basidiospores					13 - 310 - 15,000	91
Chaetomium					7 - 13 - 130	12
Cladosporium					27 - 510 - 8,900	93
Penicillium/Aspergillus types					27 - 210 - 2,500	80
Rusts					7 - 15 - 310	22
Smuts, Periconia, Myxomycetes					7 - 40 - 830	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: 20906001-TM9002LS

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 6%	dF: N/A Result: N/A Critical value: N/A Inside Similar: N/A	Result: 0.5455	dF: 8 Result: 0.4107 Critical value: 0.6190 Outside Similar: No	Score: 116 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Basidiospores				
	Penicillium/Aspergillus types				
	Smuts, Periconia, Myxomycetes				
	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.

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Date of Report: 06-30-2009

MoldSTAT™: Supplementary Statistical Spore Trap Report

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

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

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

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wes Frey
Re: 20906001

Date of Sampling: 06-29-2009
Date of Receipt: 06-30-2009
Date of Report: 06-30-2009

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.

