ENTEK

CULTURABLE FUNGAL (MOLD) SPORE

AIR SAMPLING RESULTS

(COLLECTED ON MALT EXTRACT AGAR)

ENTEK

ENTEK CONSULTING GROUP, INC.
4200 Rocklin Road, Suite 7
Rocklin, CA 95677
(916) 632-6800
Fax (916) 632-6812

TABLE OF AIR SAMPLING RESULTS
CULTURABLE MOLD SPORE MONITORING

Date of Sampling: 5-17-07 **Lab:** EML - San Bruno

Job Number: 07-534 **Turnaround Time:** Standard

Client Name: State Compensation Insurance Fund **Collected by:** Rick Beall

Site Address: 450 N Street
Sacramento, CA 94279

SAMPLE NUMBER	SAMPLE LOCATION	RESULTS CFU/M³
ECG-07-534-20	Room 2237,	49
ECG-07-534-21	Open Office Space by Room 2206	28
ECG-07-534-22	Room 2217 - Law Library	28
ECG-07-534-23	Open Office Space by Room 2231	28
ECG-07-534-24	Room 2305 Cubicle	21
ECG-07-534-25	Room 2305 at Reception Desk by Column K-19	35
ECG-07-534-26	Room 1820 at North West Corner of Building	28
ECG-07-534-27	Room 1820 by Column N-18 and Sorting Station 16	296
ECG-07-534-28	Room 1820 by Column K-18	92
ECG-07-534-29	Room 2102 by Column K-22	<7
ECG-07-534-30	Room 2102 by Cubicles 021 & 022	28
ECG-07-534-31	Room 2102 by Cubicle 098	28
ECG-07-534-32	Room 2210 at South West Corner of Building, Above Drop-in Ceiling System	49

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11

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Site Address: 450 N Street
Sacramento, CA 94279

SAMPLE NUMBER	SAMPLE LOCATION	RESULTS CFU/M³
ECG-07-534-33	Open Office Area, Near Room 2206, Above Drop-in Ceiling Attic Space	<7
ECG-07-534-34	Outside Ambient Air - North Side of Building by Cafeteria	706
ECG-07-534-35	Outside Ambient Air - North Side of Building by Cafeteria	1,003
ECG-07-534-36	Outside Ambient Air - North Side of Building by Cafeteria	1,058

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Media Extract Agar - Health Link Malt Agar: Lot 0708503 & 0709902; Exp. Date: 7-16-07 & 7-30-07

Five minute sampling period for indoor and outside ambient air samples. All five minute samples have an air volume of 0.140 cubic feet.

Sample flow rates for all air sampling at 28.3 liters per minute calibrated using a primary standard (BIOS, DryCal, DC-Lite, Serial Number 3518, Model Number DCL-H Rev. 1.08).

CFU/M^3 = Colony forming units per cubic meter.

Outside Ambient Air Conditions (Temperature & Wind):65-85°F; 0-10 mph; Light Winds, Clear Skies

HVAC fan on during air sampling.

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Ratio of Indoor to Outdoor Culturable Colony Concentrations

Date of Sampling: 5-17-07

Lab: EML - San Bruno

Job Number: 07-534

Turnaround Time: Standard

Client Name: State Compensation Insurance Fund

Collected by: Rick Beall

Site Address: 450 N Street
Sacramento, CA 94279

Location	Fungal Colony Concentrations Measured		
Room	CFU/M^3	[Inside] / [Outside]	% of [Outside]
*Outside Ambient Air	922		
Room 2237	49	0.053	5.3
Open Office Space by Room 2206	28	0.030	3.0
Room 2217 - Law Library	28	0.030	3.0
Open Office Space by Room 2231	28	0.030	3.0
Room 2305 at Cubicle	21	0.023	2.3
Room 2305 at Reception Desk by Column K-19	35	0.038	3.8
Room 1820 at North West Corner of Building	28	0.030	3.0
Room 1820 by Column N-18 and Sorting Station 16	296	0.321	32.1
Room 1820 by Column K-18	92	0.100	10.0
Room 2102 by Column K-22	<7	0.008	0.8
Room 2102 by Cubicles 021 & 022	28	0.030	3.0
Room 2102 by Cubicle 098	28	0.030	3.0
Room 2210 at South West Corner of Building, Above Drop-in Ceiling System	49	0.053	5.3
Open Office Area, Near Room 2206, Above Drop-in Ceiling Attic Space	<7	0.008	0.8

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*Outside Ambient Air is a average of samples ECG-07-534-34, ECG-07-534-35, & ECG-07-534-36. Total of samples were 2,767 + 3 making 922 the overall average.

Environmental Microbiology Laboratory, Inc.

Report for:

Mr. Rick Beall
Entek Consulting Group
4200 Rocklin Road, Suite 7
Rocklin, CA 95677

Regarding: Project: 07-534; State Fund Compensation Insurance
EML ID: 299914

Date of Analysis: 05-22-2007 and 05-22-2007

Approved by:

Northwest Lab Manager
Dr. Kamashwaran Ramanathan

Project SOPs: Culturable air, standard fungal analysis (100063)

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.

Environmental Microbiology Laboratory, Inc. ("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.

Environmental Microbiology Laboratory, Inc.
1150 Bayhill Drive, Suite 100, San Bruno, CA 94066
(650) 829-5800 Fax (650) 829-5852 www.emlab.com

Client: Entek Consulting Group
C/O: Mr. Rick Beall
Re: 07-534; State Fund Compensation Insurance

Date of Sampling: 05-17-2007
Date of Receipt: 05-21-2007
Date of Report: 05-23-2007

CULTURABLE AIR FUNGI REPORT

Location:	ECG-07-534-20: Room 2237,		ECG-07-534-21: Open office space by room 2206		ECG-07-534-22: Room 2217-low library		ECG-07-534-23: Open office space by room 2231		ECG-07-534-24: Room 2305 at cubicle	
Comments (see below)	None		None		None		None		None	
Lab ID-Version‡:	1306872-1		1306871-1		1306870-1		1306869-1		1306868-1	
	raw ct.	cfu*/m3	raw ct.	cfu*/m3	raw ct.	cfu*/m3	raw ct.	cfu*/m3	raw ct.	cfu*/m3
Acremonium										
Alternaria										
Aspergillus flavus										
Aspergillus fumigatus										
Aspergillus nidulans										
Aspergillus niger										
Aspergillus ochraceus										
Aspergillus versicolor										
Aureobasidium										
Basidiomycetes										
Bipolaris/Drechslera group										
Botrytis										
Chaetomium										
Cladosporium	4	28	2	14	2	14	1	7	1	7
Curvularia										
Epicoccum	1	7								
Fusarium										
Mycotypha										
Non-sporulating fungi	1	7			1	7			1	7
Paecilomyces										
Penicillium			1	7					1	7
Phoma										
Rhizopus										
Stachybotrys chartarum										
Ulocladium										
Yeasts	1	7	1	7	1	7	3	21		
Positive Hole	400		400		400		400		400	
Sample volume (liters)	141.5		141.5		141.5		141.5		141.5	
TOTAL CFU*/M3		49		28		28		28		21

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

Comments:

Note: Interpretation is left to the company and/or persons who conducted the field work. Variation is an inherent part of biological sampling. The presence or absence of a few genera in small numbers should not be considered abnormal.
NORMAL SPORE LEVELS: Indoor spore levels usually average 30 to 80% of the outdoor spore level at the time of sampling, with the same general distribution of spore types. Filtered air, air-conditioned air, or air remote from outside sources may average 5 to 15% of the outside air at the time of sampling. (These percentages are guidelines, only. A major factor is the accessibility of outdoor air. A residence with open doors and windows and heavy foot traffic may average 95% of the outdoor level while high rise office buildings with little air exchange may average 2%. Dusty interiors may exceed 100% of the outdoors to some degree, but will still mirror the outdoor distribution of spore types.)
PROBLEM INTERIORS: A substantial increase of one or two spore types which are inconsistent with and non-reflective of the outside distribution of spore types is usually indicative of an indoor reservoir of mold growth.
‡ A "Version" greater than 1 indicates amended data.

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Re: 07-534; State Fund Compensation Insurance

Date of Sampling: 05-17-2007
Date of Receipt: 05-21-2007
Date of Report: 05-23-2007

CULTURABLE AIR FUNGI REPORT

Location:	ECG-07-534-25: Room 2305 at reception desk by column K-19		ECG-07-534-26: Room 1820 at north west corner of building		ECG-07-534-27: Room 1820 by column N-18 and sorting station 16		ECG-07-534-28: Room 1820 by column K-18	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1306867-1		1306866-1		1306865-1		1306864-1	
	raw ct.	cfu*/m3	raw ct.	cfu*/m3	raw ct.	cfu*/m3	raw ct.	cfu*/m3
Acremonium								
Alternaria								
Aspergillus flavus								
Aspergillus fumigatus								
Aspergillus nidulans								
Aspergillus niger								
Aspergillus ochraceus								
Aspergillus versicolor								
Aureobasidium								
Basidiomycetes								
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	1	7	3	21	34	254	7	50
Curvularia								
Epicoccum								
Fusarium								
Mycotypha	1	7						
Non-sporulating fungi	2	14			2	14		
Paecilomyces								
Penicillium	1	7	1	7	4	28	3	21
Phoma								
Rhizopus								
Stachybotrys chartarum								
Ulocladium								
Yeasts							3	21
Positive Hole	400		400		400		400	
Sample volume (liters)	141.5		141.5		141.5		141.5	
TOTAL CFU*/M3		35		28		296		92

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

Comments:

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PROBLEM INTERIORS: A substantial increase of one or two spore types which are inconsistent with and non-reflective of the outside distribution of spore types is usually indicative of an indoor reservoir of mold growth.
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Date of Sampling: 05-17-2007
Date of Receipt: 05-21-2007
Date of Report: 05-23-2007

CULTURABLE AIR FUNGI REPORT

Location:	ECG-07-534-29: Room 2120 by column K-22		ECG-07-534-30: Room 2120 by cubicle 021 and 022		ECG-07-534-31: Room 2102 by cubicle 098		ECG-07-534-32: Room 2210 at south west corner of building, above drop in ceiling system	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1306863-1		1306862-1		1306861-1		1306860-1	
	raw ct.	cfu*/m3	raw ct.	cfu*/m3	raw ct.	cfu*/m3	raw ct.	cfu*/m3
Acremonium								
Alternaria								
Aspergillus flavus								
Aspergillus fumigatus								
Aspergillus nidulans								
Aspergillus niger								
Aspergillus ochraceus								
Aspergillus versicolor								
Aureobasidium								
Basidiomycetes								
Bipolaris/Drechslera group								
Botrytis								
Cladosporium			3	21	3	21	5	35
Curvularia								
Epicoccum								
Fusarium								
Mycotypha								
Non-sporulating fungi					1	7	1	7
Paecilomyces								
Penicillium			1	7			1	7
Rhizopus								
Stachybotrys chartarum								
Ulocladium								
Yeasts								
Positive Hole	400		400		400		400	
Sample volume (liters)	141.5		141.5		141.5		141.5	
TOTAL CFU*/M3		<7		28		28		49

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

Comments:

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Date of Receipt: 05-21-2007
Date of Report: 05-23-2007

CULTURABLE AIR FUNGI REPORT

Location:	ECG-07-534-33: Open office area, near room 2206, above drop in ceiling attic space		ECG-07-534-34: Outside ambient air-north side of building by cafeteria		ECG-07-534-35: Outside ambient air-north side of building by cafeteria		ECG-07-534-36: Outside ambient air-north side of building by cafeteria	
Comments (see below)	None		None		A		A	
Lab ID-Version‡:	1306859-1		1306858-1		1306857-1		1306856-1	
	raw ct.	cfu*/m3	raw ct.	cfu*/m3	raw ct.	cfu*/m3	raw ct.	cfu*/m3
Acremonium								
Alternaria			1	7				
Aspergillus flavus								
Aspergillus fumigatus			1	7				
Aspergillus nidulans								
Aspergillus niger			2	14			1	7
Aspergillus ochraceus								
Aspergillus versicolor								
Aureobasidium								
Basidiomycetes								
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium			78	615	116	968	122	1,030
Curvularia								
Epicoccum								
Fusarium								
Mycotypha								
Non-sporulating fungi			2	14			2	14
Paecilomyces								
Penicillium			3	21	4	28		
Phoma								
Rhizopus			1	7	1	7	1	7
Stachybotrys chartarum								
Ulocladium			1	7				
Yeasts			2	14				
Positive Hole	400		400		400		400	
Sample volume (liters)	141.5		141.5		141.5		141.5	
TOTAL CFU*/M3		<7		706		1,003		1,058

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

Comments: A) The sample was overgrown with a *Rhizopus* species which may have reduced or eliminated the presence of other fungi.

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ECG-07-534-23	Open Office Space by Room 2231	
ECG-07-534-24	Room 2305 at Cubicle	
ECG-07-534-25	Room 2305 at Reception Desk by Column K-19	
ECG-07-534-26	Room 1820 at North West Corner of Building	
ECG-07-534-27	Room 1820 by Column N-18 and Sorting Station 16	
ECG-07-534-28	Room 1820 by Column K-18	
ECG-07-534-29	Room 2102 by Column K-22	
ECG-07-534-30	Room 2102 by Cubicles 021 & 022	
ECG-07-534-31	Room 2102 by Cubicle 098	
ECG-07-534-32	Room 2210 at South West Corner of Building, Above Drop-in Ceiling System	

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Delivered by: SJ Via FedEx **Date:** 5-18-07 **Time:** —

Received by: Ufon Tran **Date:** 5/21/07 **Time:** 9:20 am

19

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ECG-07-534-23	Open Office Space by Room 2231	
ECG-07-534-24	Room 2305 at Cubicle	
ECG-07-534-25	Room 2305 at Reception Desk by Column K-19	
ECG-07-534-26	Room 1820 at North West Corner of Building	
ECG-07-534-27	Room 1820 by Column N-18 and Sorting Station 16	
ECG-07-534-28	Room 1820 by Column K-18	
ECG-07-534-29	Room 2102 by Column K-22	
ECG-07-534-30	Room 2102 by Cubicles 021 & 022	
ECG-07-534-31	Room 2102 by Cubicle 098	
ECG-07-534-32	Room 2210 at South West Corner of Building, Above Drop-in Ceiling System	

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Delivered by: SJ Via FedEx **Date:** 5-18-07 **Time:** —

Received by: Ufon Tran **Date:** 5/21/07 **Time:** 9:20 am

20

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Job Number: 07-534 **Turnaround Time:** Standard

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SAMPLE NUMBER	SAMPLE LOCATION	RESULTS CFU/M³
ECG-07-534-33	Open Office Area, Near Room 2206, Above Drop-in Ceiling Attic Space	
ECG-07-534-34	Outside Ambient Air - North Side of Building by Cafeteria	
ECG-07-534-35	Outside Ambient Air - North Side of Building by Cafeteria	
ECG-07-534-36	Outside Ambient Air - North Side of Building by Cafeteria	

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Media Extract Agar - Health Link Malt Agar: Lot 0708503 & 0709902; Exp. Date: 7-16-07 & 7-30-07

Five minute sampling period for indoor and outside ambient air samples. All five minute samples have an air volume of 0.140 cubic feet.

Sample flow rates for all air sampling at 28.3 liters per minute calibrated using a primary standard (BIOS, DryCal, DC-Lite, Serial Number 3518, Model Number DCL-H Rev. 1.08).

CFU/M³ = Colony forming units per cubic meter.

Outside Ambient Air Conditions (Temperature & Wind):65-85°F; 0-10 mph; Light Winds, Clear Skies

HVAC fan on during air sampling.

00029914

Delivered by: SJ Via FedEx Date: 5-18-07 Time: —

Received by: [signature] Date: 5/21/07 Time: 920

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21